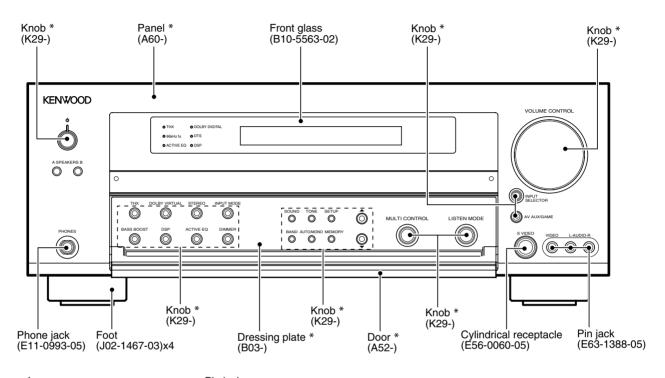
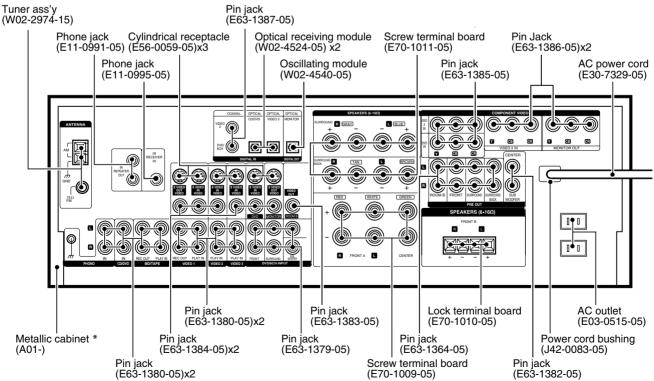
KRF-V7090D/V7090D-S/VR-9050 VR-9050-S/9060/9060-S/9070/9070-S SERVICE MANUAL

KENWOOD

Kenwood Corporation

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Illust. is VR-9070.

* Refer to parts list on page 32.



KRF-V7090D/VR-9050/9060/9070

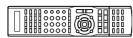
ACCESSORIES / CAUTIONS / ADJUSTMENT

ACCESSORIES

AM loop antenna (1) (T90-0893-05)

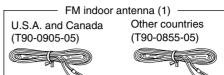


Remote control unit (1) See the following table.



Batteries (R03/AAA) (2)





PCB vs MODEL

MODEL		SURROUND	AUDIO	SUB	DISPLAY
VR-9050/-S	K,P	X08-3390-10	X09-6960-10	X13-7960-10	X14-7900-10
VR-9060/-S	K,P	X08-3390-11	X09-6960-10	X13-7960-11	X14-7900-11
VR-9070/-S	K,P	X08-3390-12	X09-6960-10	X13-7960-12	X14-7900-12
KRF-V7090D-S	Х	X08-3390-10	X09-6960-71	X13-7962-71	X14-7900-71
KRF-V7090D/D-S	Е	X08-3392-71	X09-6962-71	X13-7962-71	X14-7902-71

REMOTE CONTROL vs MODEL

MODEL		PARTS#	CONTROLLER #
VR-9050/-S	K,P	A70-1673-05	RC-R0731
VR-9060/-S	K,P	A70-1671-05	RC-R0829
VR-9070/-S	K,P	A70-1675-05	RC-R0918
KRF-V7090D-S	Х	A70-1674-05	RC-R0731E
KRF-V7090D/D-S	E	A70-1674-05	RC-R0731E













CAUTIONS

Resetting the Microcomputer

The microcomputer may malfunction (unit cannot be operated, or shows an erroneous display) if the power cord is unplugged while the power is ON, or due to some other external factor. If this happens, execute the following procedure to reset the microcomputer and return the unit to its normal operating condition.

Unplug the power cord from the wall outlet, then plug it back in while holding down the \circ (POWER ON/STANDBY) key.

• Please note that resetting the microcomputer will clear the contents of the memory and returns the unit to the state it was in when it left the factory.

Memory back up function

Please note that the following items will be deleted from the unit's memory if the power cord is disconnected from the AC outlet for approximately 1 day.

- Power mode
- Input selector settings
- Speaker ON/OFF
- Volume level
- BASS, TREBLE, INPUT level
- TONE ON/OFF
- LOUDNESS ON/OFF
- Dimmer level
- Listen mode setting
- Speaker settings

- · Distance setting
- Input mode setting
- · Sound mode settings
- · Broadcast band
- · Frequency setting
- · Preset stations
- Tuning mode
- ACTIVE EQ mode
- GAME mode setting

ADJUSTMENT

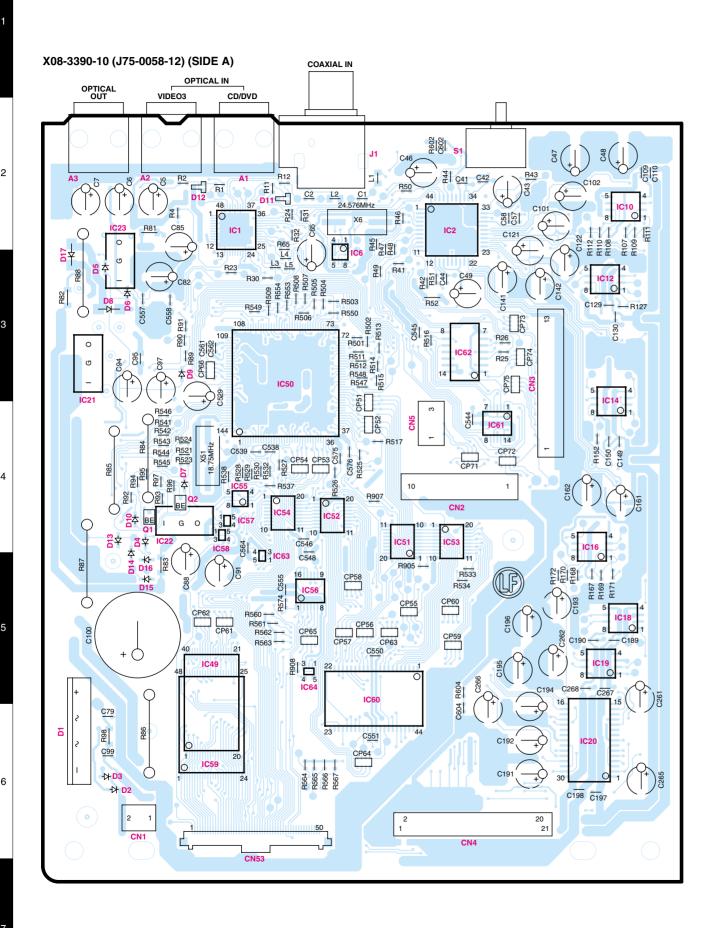
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT SETTINGS	ALIGNMENT POINTS	FIG.
AUD	IO SECTION	SPE	AKER : A				
<1>	IDLE CURRENT *	-	CN11, FL ch. CN10, FR ch. CN14, SL ch. CN13, SR ch. CN12, C ch. CN15, SBL ch. X09(A/4) CN706, SBR ch. X13(F/6)	(FRONT 2ch MODE) Volume: Minimum	VR1(FL) VR2(FR) VR3(SL) VR4(SR) VR5(CENTER) VR6(SBL) X09(A/4) VR702(SBR) X13(F/6)	Adjust every potentiometer 10 minutes later after turned the power on.	

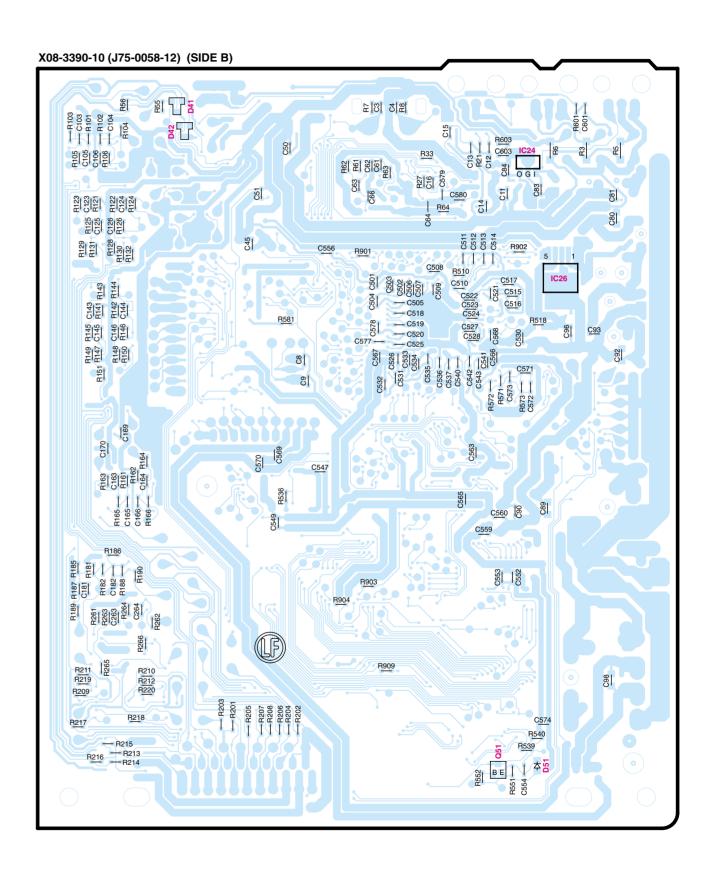
^{*} Idling Current Adjustment

All power amplifier stage need idling current adjustment after the installation of TRAIT transistor.

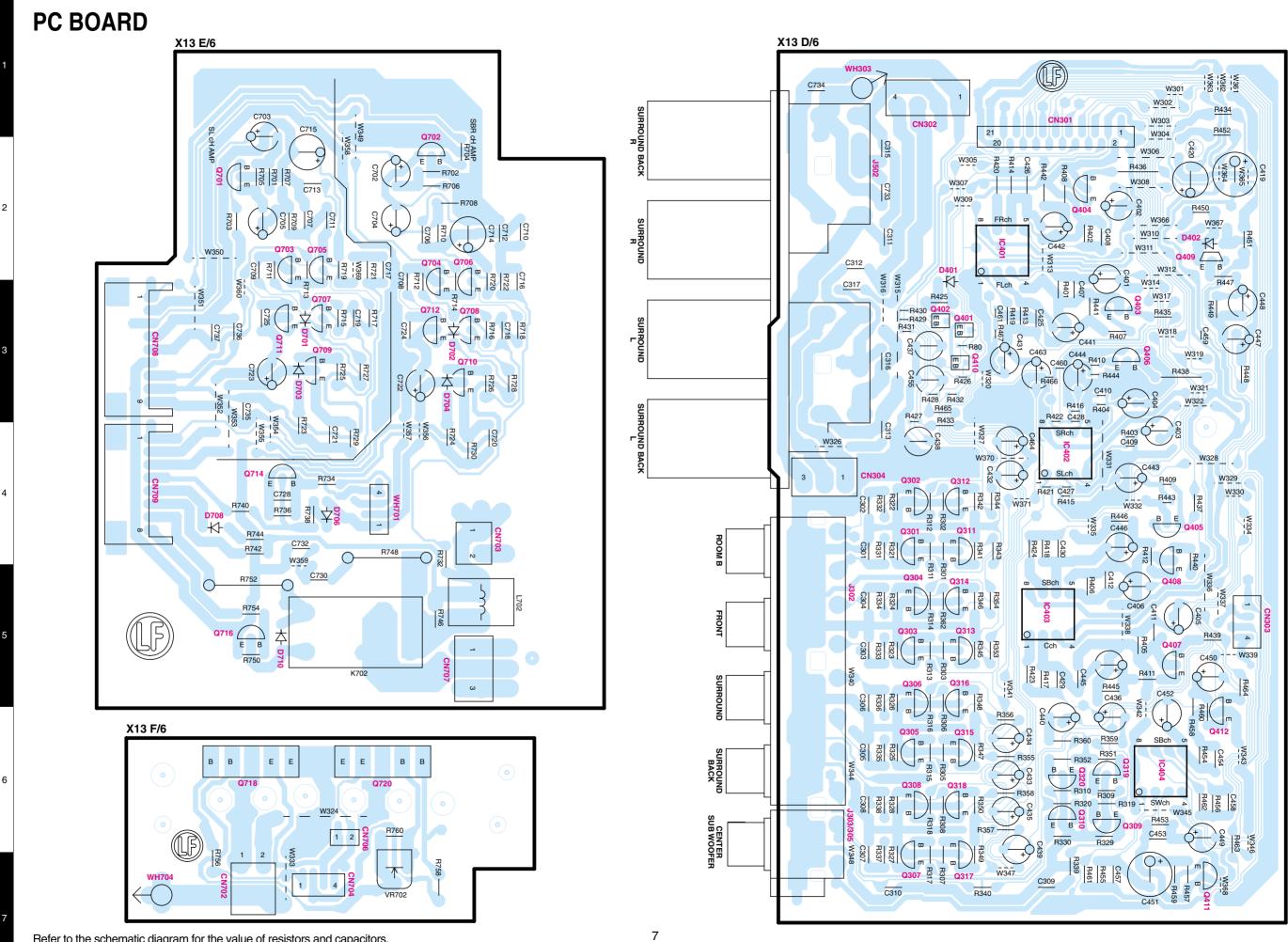
- 1. Connect a voltmeter to CNs with the correct polarity as indicated by the PCB silk print.
- 2. Adjust the preset, VRs to get 8.8mV (Idling current = 20mA) at the voltmeter reading.
- 3. Repeat step few times for all channels.

PC BOARD





G

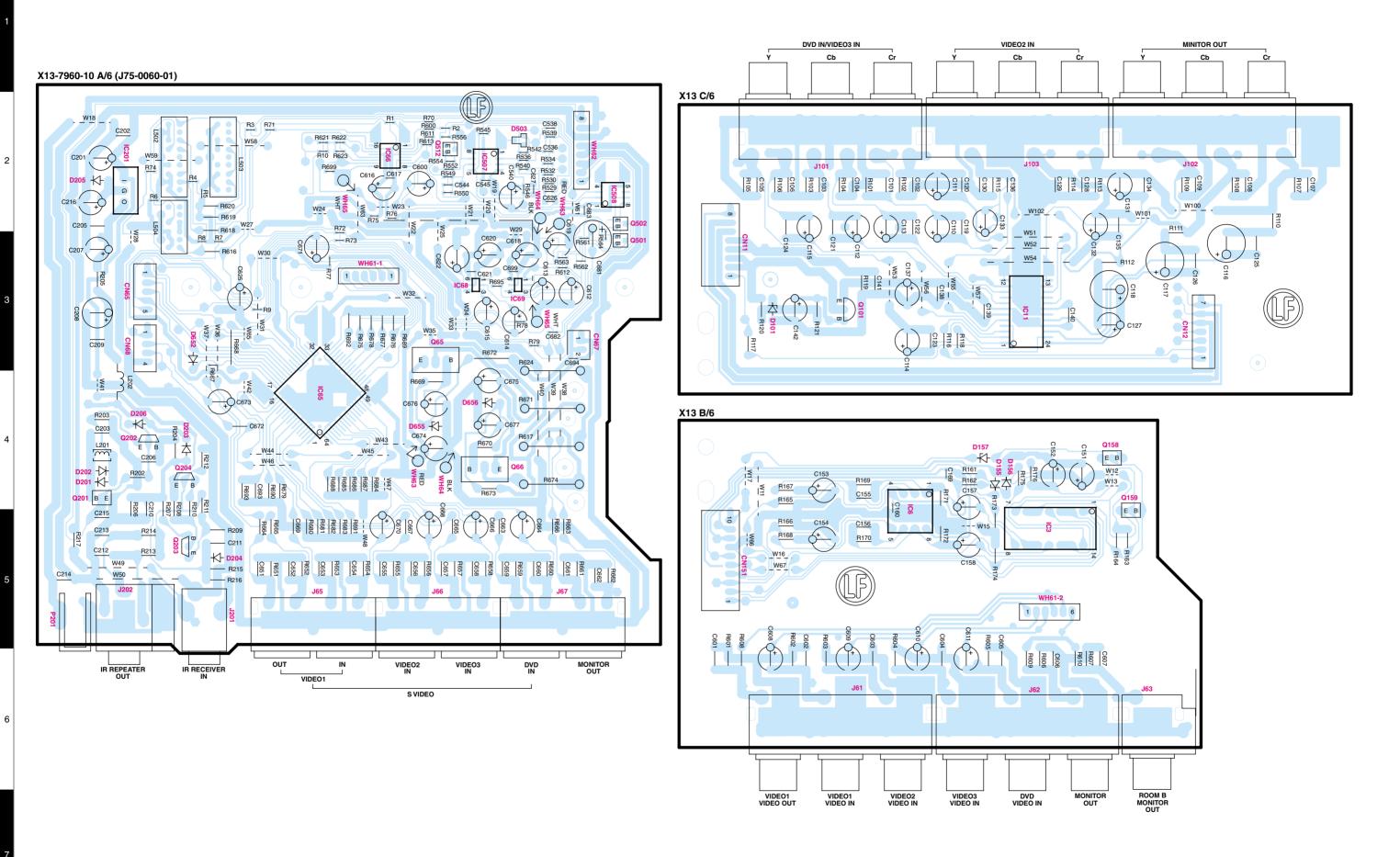


AA

AC

AE AF AG AH AI AJ AK AL AM AN

PC BOARD

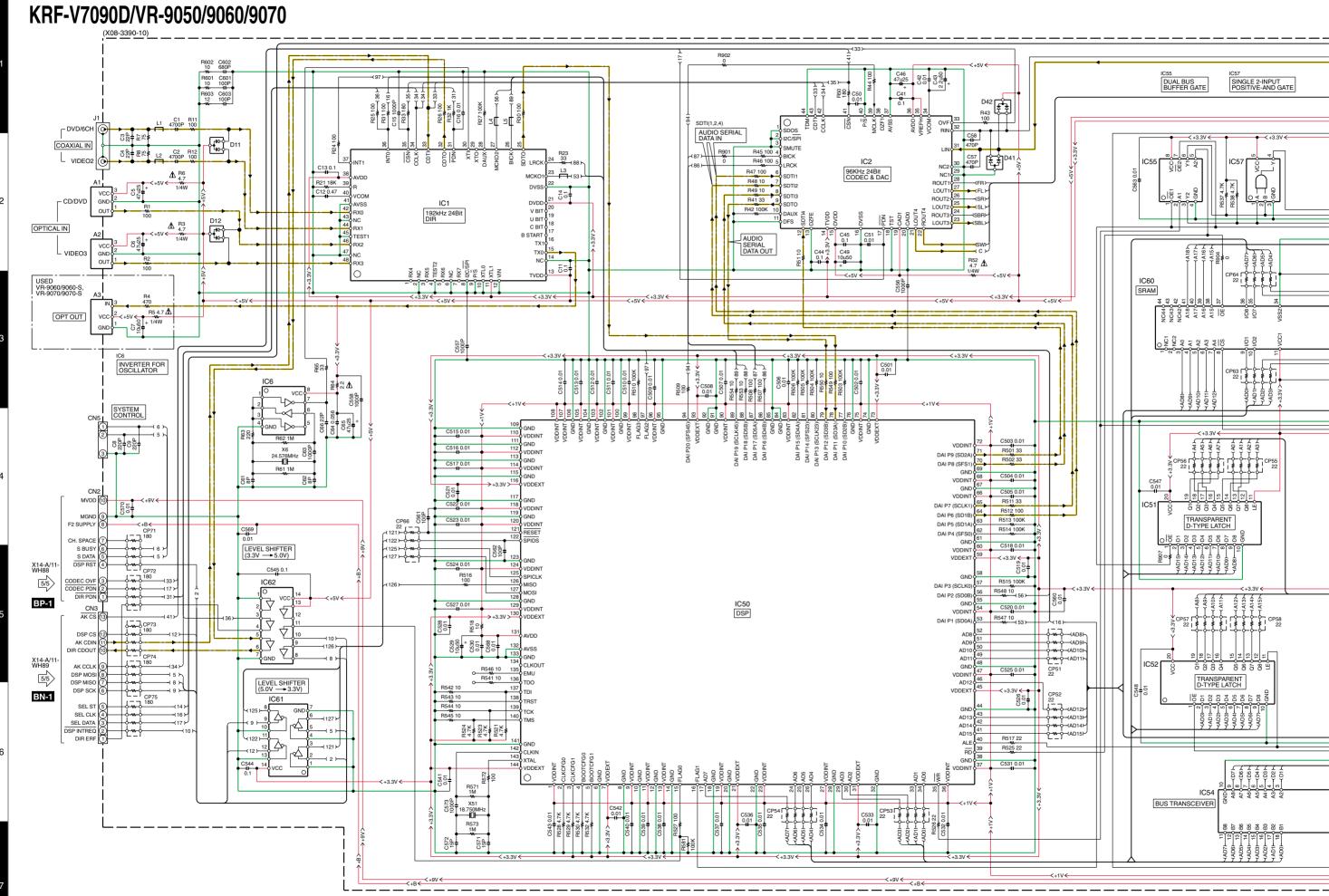


10

AO AP AQ AR AS AT AU AV AW

PC BOARD

X14-7900-10 A/11 (J75-0061-01) E703 DISPLAY & MICRO-COMPLITER PCR STEREO | S713 R858 R946 R948 R947 000 R939 — R938 — C793 LISTEN MODE X14 H/11 X14 I/11 X14 E/11 X14 C/11 R532 X14 B/11 C510 — X14 D/11



G

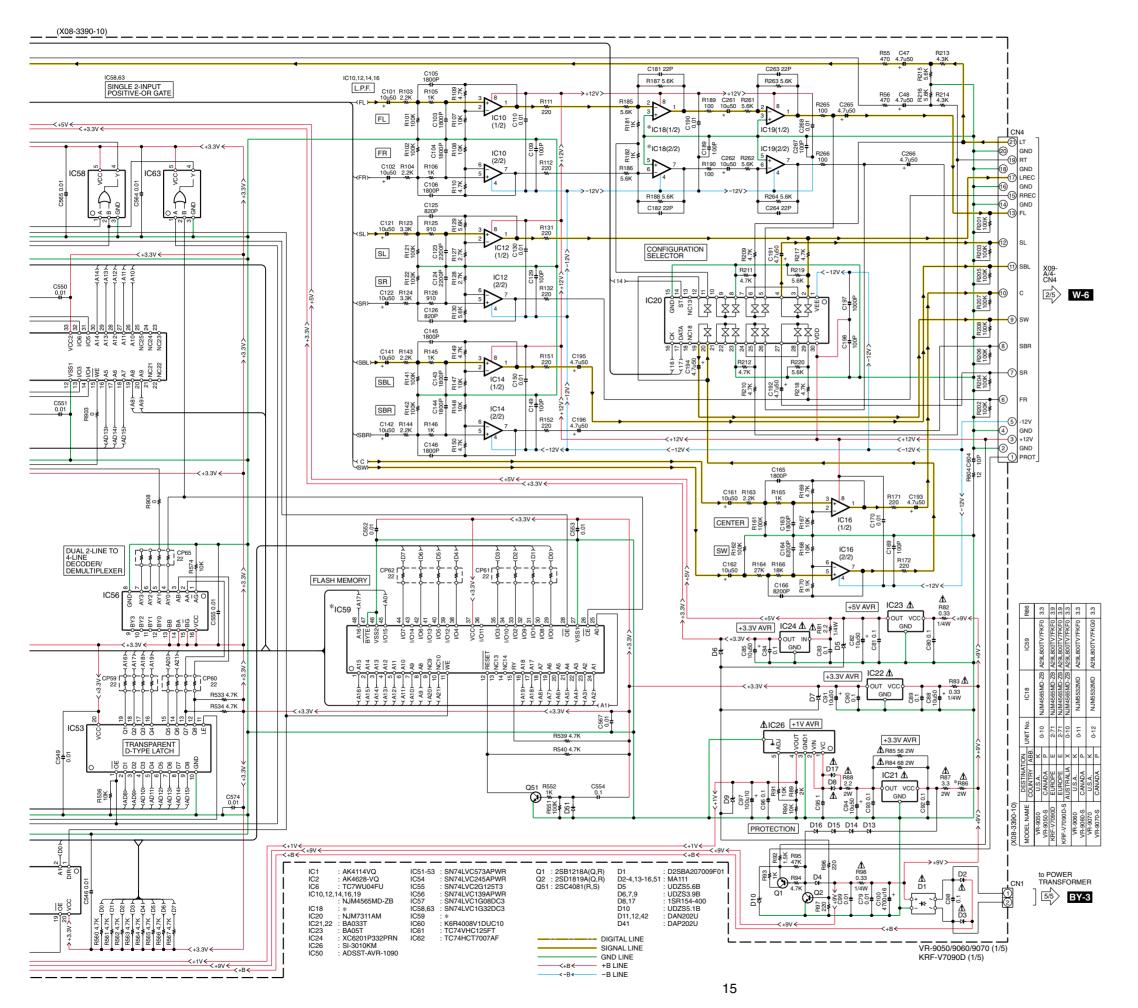
X08-3390-10 (1/2)

K L M N O P Q R S

KRF-V7090D/VR-9050/9060/9070

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). \triangle indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.



to TUNER PACK

Q307 Q309-312

IC1: NJM4580L-ZB IC2: M61516FP-RFOG

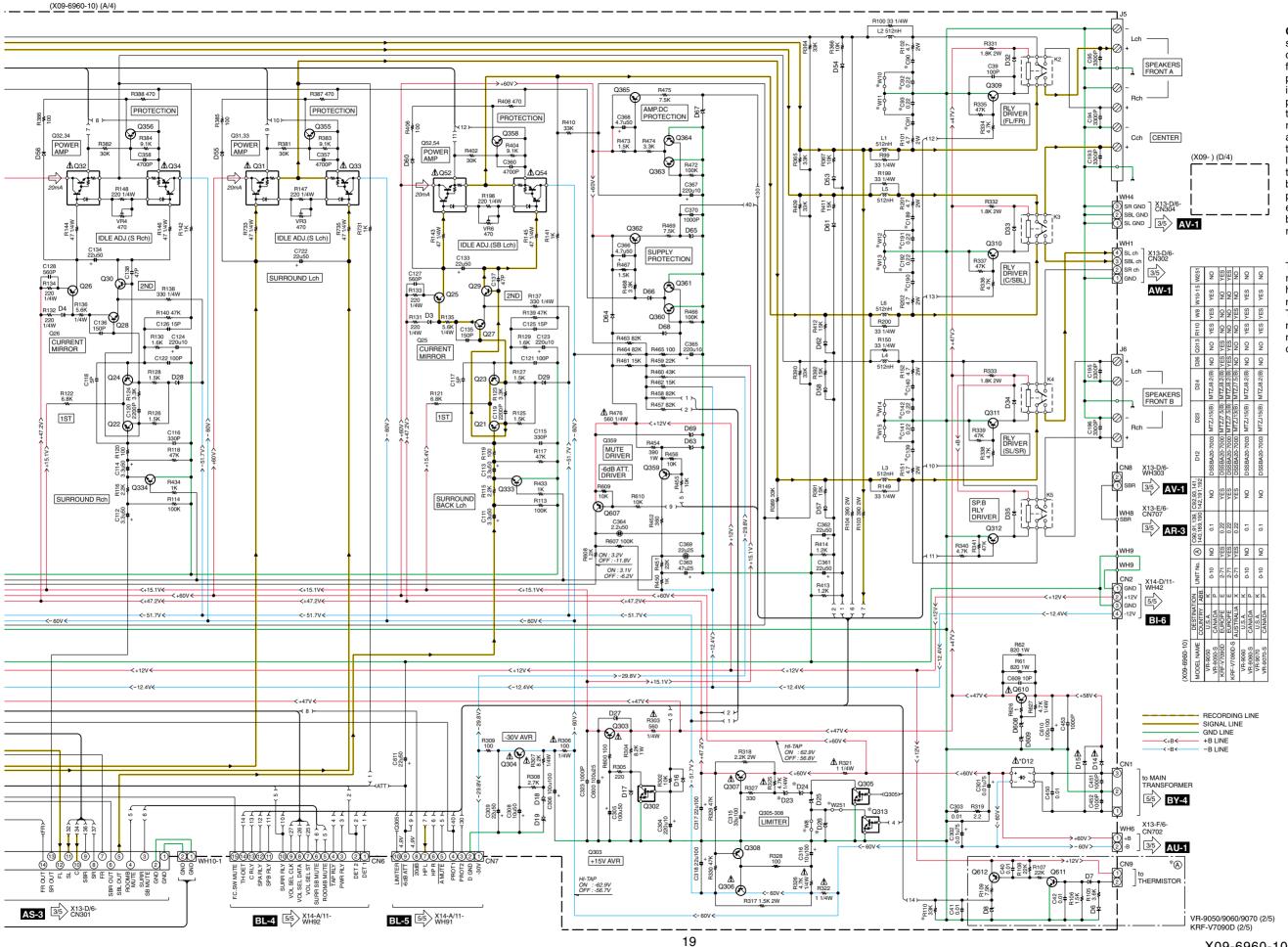
2SD2525 KTC3200

BC-5

AO-2 3/5 X13-E/6-CN709 AO-1 3/5 X13-E/6-CN708

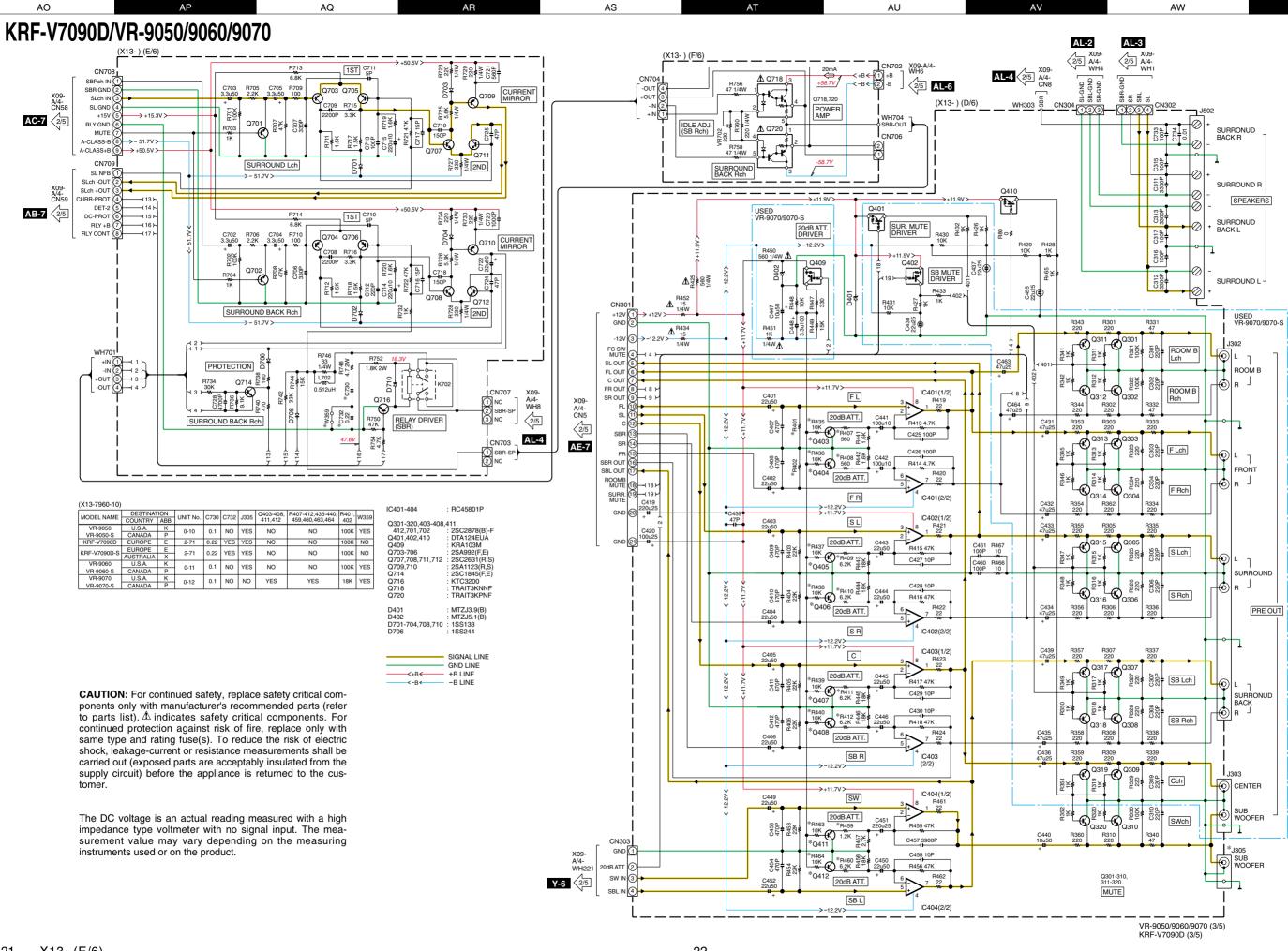
AE AF AG AH AI AJ AK AL AM AN

KRF-V7090D/VR-9050/9060/9070



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Λ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

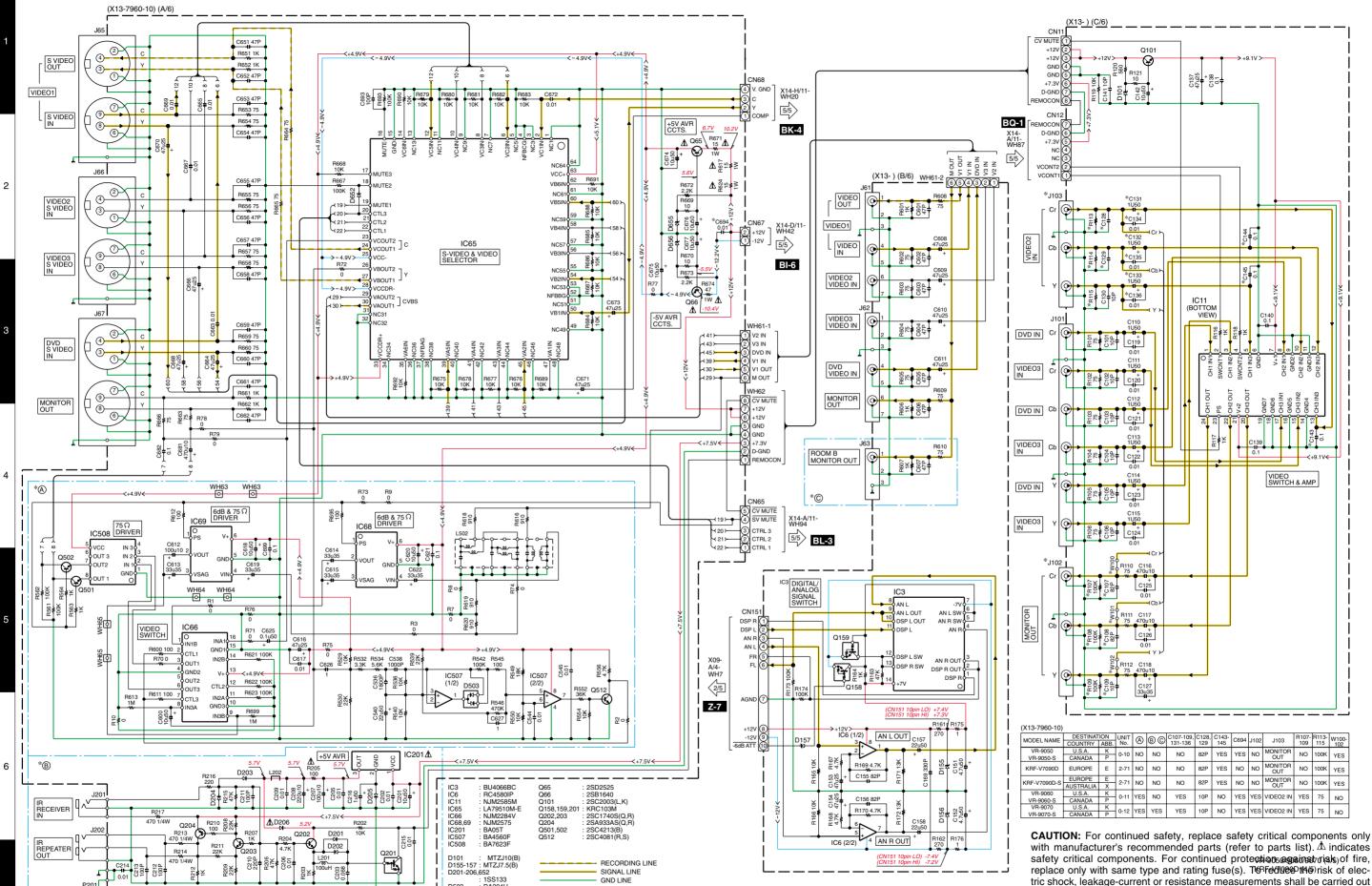


X13- (E/6)

22

KRF-V7090D/VR-9050/9060/9070

BE



BC

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

D503

ВА

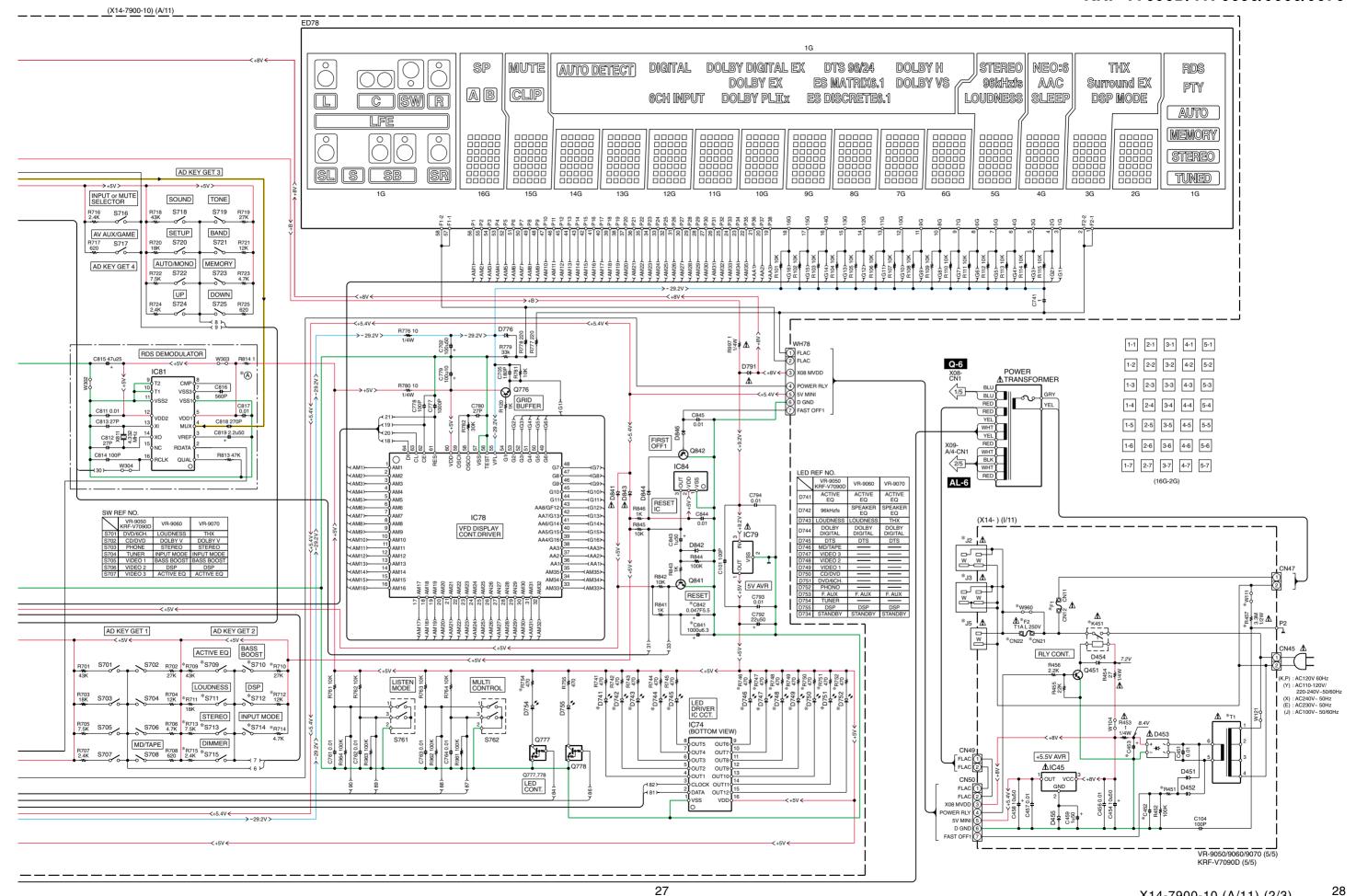
ΑY

(exposed parts are acceptably insulated from the supply circuit) before the

appliance is returned to the customer.

BS BU BY CA BV BW BX

KRF-V7090D/VR-9050/9060/9070



CC CD CE CG CF

> YES YES YES 9 9

> S S S YES YES

> YES YES YES YES YES 9 9

N YES 9

YES YES YES 9 9

YES NO NO YES

9 9 9 9 9

> NO NO 9

NO YES 9 9

NO NO 11C49HYD 11C49HYD 11C49HYD MN101C49HYD 060

9

9

125V 10A YES

D741-745, 755 B30-2545-05

CN21,

C842 9

C841

C452

UNIT No. 0-10

(X14-7900-10) MODEL NAME

0.1 C105

9 ➌

YES NO 9 9

8 8 8 A YES YES

N KES N 9 9

KRF-V7090D-S

39K

9

9 9

125V 10A 125V 10A

9

9

R457 R709-715,

R451 39K

K451

YES YES 9 9

-07-2809-05

KRF-V7090D/VR-9050/9060/9070

ANO	DE CONNECTION	ı						
	1G	2G	3G	4G	5G	6-14G	15G	16G
P1		1-1	1-1	1-1	1-1	1-1	1-1	1-1
P2	С	2-1	2-1	2-1	2-1	2-1	2-1	2-1
P3	R	3-1	3-1	3-1	3-1	3-1	3-1	3-1
P4	SR	4-1	4-1	4-1	4-1	4-1	4-1	4-1
P5	SB	5-1	5-1	5-1	5-1	5-1	5-1	5-1
P6	SL	1-2	1-2	1-2	1-2	1-2	1-2	1-2
P7	S	2-2	2-2	2-2	2-2	2-2	2-2	2-2
P8	SW	3-2	3-2	3-2	3-2	3-2	3-2	3-2
P9	LFE	4-2	4-2	4-2	4-2	4-2	4-2	4-2
P10	(L)	5-2	5-2	5-2	5-2	5-2	5-2	5-2
P11	(C)	1-3	1-3	1-3	1-3	1-3	1-3	1-3
P12	(R)	2-3	2-3	2-3	2-3	2-3	2-3	2-3
P13	Ö(SR)	3-3	3-3	3-3	3-3	3-3	3-3	3-3
P14	(SBR)	4-3	4-3	4-3	4-3	4-3	4-3	4-3
P15	Ö(SBL)	5-3	5-3	5-3	5-3	5-3	5-3	5-3
P16	(SL)	1-4	1-4	1-4	1-4	1-4	1-4	1-4
P17	(sw)	2-4	2-4	2-4	2-4	2-4	2-4	2-4
P18	AUTO DETECT	3-4	3-4	3-4	3-4	3-4	3-4	3-4
P19	DIGITAL	4-4	4-4	4-4	4-4	4-4	4-4	4-4
P20	6CH INPUT	5-4	5-4	5-4	5-4	5-4	5-4	5-4
P21	DOLBY DIGITAL	1-5	1-5	1-5	1-5	1-5	1-5	1-5
P22	(DOLBY DIGITAL) EX	2-5	2-5	2-5	2-5	2-5	2-5	2-5
P23	DOLBY EX	3-5	3-5	3-5	3-5	3-5	3-5	3-5
P24	DOLBY PL	4-5	4-5	4-5	4-5	4-5	4-5	4-5
P25	п	5-5	5-5	5-5	5-5	5-5	5-5	5-5
P26	х	1-6	1-6	1-6	1-6	1-6	1-6	1-6
P27	DTS	2-6	2-6	2-6	2-6	2-6	2-6	2-6
P28	96/24	3-6	3-6	3-6	3-6	3-6	3-6	3-6
P29	ES MATRIX6.1	4-6	4-6	4-6	4-6	4-6	4-6	4-6
P30	ES DISCRETE6.1	5-6	5-6	5-6	5-6	5-6	5-6	5-6
P31	DOLBY H	1-7	1-7	1-7	1-7	1-7	1-7	1-7
P32	DOLBY VS	2-7	2-7	2-7	2-7	2-7	2-7	2-7
P33	RDS	3-7	3-7	3-7	3-7	3-7	3-7	3-7
P34	PTY	4-7	4-7	4-7	4-7	4-7	4-7	4-7
P35	AUTO	5-7	5-7	5-7	5-7	5-7	5-7	5-7
P36	MEMORY	_	THX	NEO:6	STEREO		MUTE	SP
P37	STEREO	_	Surround EX	AAC	96kHzfs	_	CLIP	A
P38	TUNED	_	DSP MODE	SLEEP	LOUDNESS		_	В

BA05T BU2090 LC75711NED-E XC6202P502PR BU1924F IC45 IC74 IC78 IC79 IC81 IC84 IC90 S-80840CNY-GZ KIA7812API-UP KIA7912API-UP BA4560F IC401 Q451,776,841

Q451,776,841 : 2SC1740S(Q,R) Q512 : 2SC4081(R,S) Q731,843 : DTC113ZSA Q777,778 : DTC124ESA Q842 : 2SA933AS(Q,R) D2SBA207009F01

D401 : D2SB/ D451,452,454,501-504, 791,801-806,842,844, 846,961-964 : 1SS133 846,961-964 : 1SS133 D453 : S1ZB20(7101) D455,841,843 : RB721O D500 : 1SS302 D734,753 : B30-2545-05 D741-745,755 : * D746-752,754 : B30-2651-05 D776 : MTZJ5.1(B)

: MF-R090-99

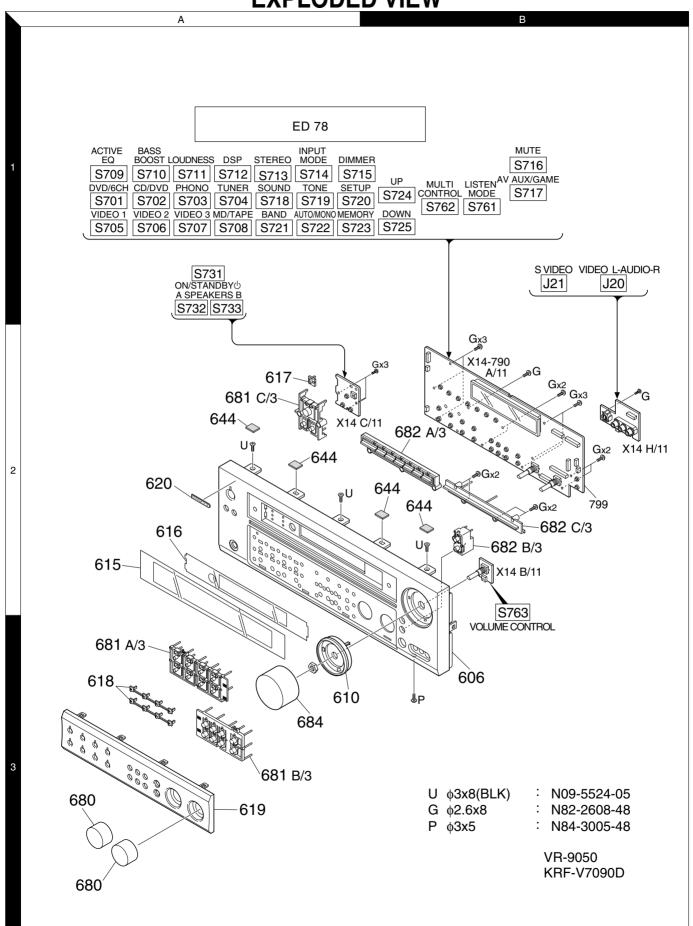


CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). A indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the cus-

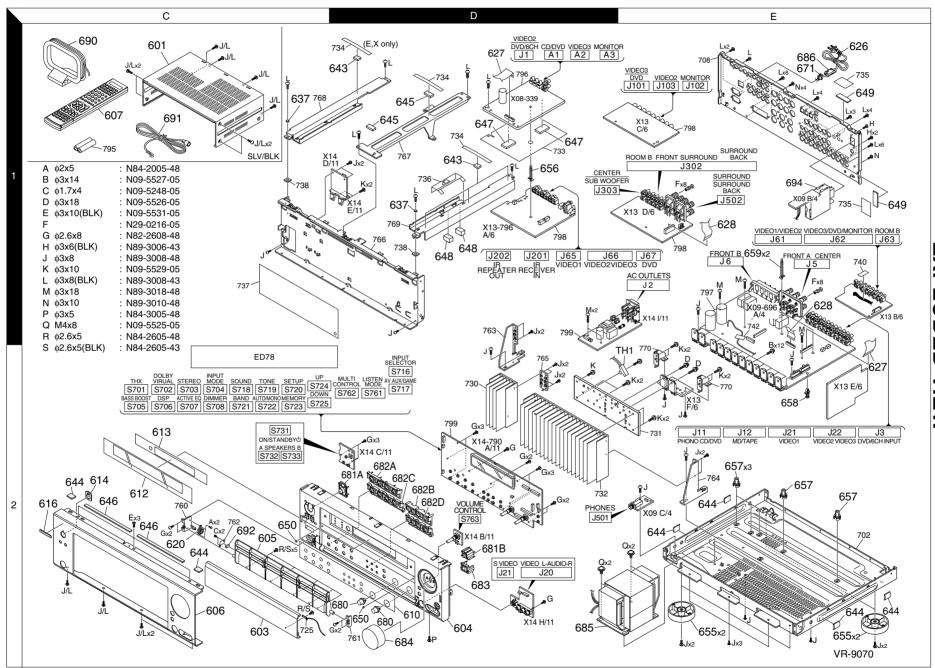
The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

KRF-V7090D/VR-9050/9060/9070

EXPLODED VIEW



EXPLODED VIEW KRF-V7090D/VR-9050/9060/9070



Ø

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

0

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
				VR-9070		
601 601 603 603 604	1C 1C 2C 2C 2C 2D	***	A01-3950-01 A01-3951-01 A21-5484-12 A21-5485-12 A22-1906-01	METALLIC CABINET METALLIC CABINET DRESSING PANEL DRESSING PANEL SUB PANEL	K8P8 K9P9 K8P8 K9P9 K8P8	
604 605 605 606 606	2D 2C 2C 2C 2C 2C	****	A22-1907-01 A52-1021-01 A52-1022-01 A60-2421-01 A60-2422-01	SUB PANEL DOOR DOOR PANEL PANEL	K9P9 K8P8 K9P9 K8P8 K9P9	
607	1C	*	A70-1675-05	REMOTE CONTROLLER ASSY		
- 610 610 612	2D 2D 2C	* *	B60-5553-00 B60-5554-00 B03-3949-02 B03-3950-02 B10-5563-02	INSTRUCTION MANUAL (EN) INSTRUCTION MANUAL (FR) DRESSING PLATE PRONT GLASS	P8P9 K8P8 K9P9	
613 614 614 616	2C 2C 2C 2C	* * *	B11-1612-03 B12-0490-04 B12-0492-04 B43-0336-04	COLOR FILTER INDICATOR ASSY INDICATOR ASSY BADGE	K8P8 K9P9	
620	2C		D39-0321-05	DAMPER		
626 627 628	1E 1D,2E 1E	*	E30-7329-05 E35-3216-05 E35-3746-05	AC POWER CORD FLAT CABLE FLAT CABLE		
637	1C,1D		F29-0134-04	INSULATING WASHER		
643 644 645 646 647	1D 2C,2E 1D 2C 1D		G11-2416-04 G11-2885-04 G11-2886-04 G11-2887-04 G11-2916-04	CUSHION CUSHION CUSHION CUSHION CUSHION		
648 649 650 650	1D 1E 2C,2D 2C,2D	*	G11-2958-04 G11-2959-04 G11-2968-04 G11-2969-04	CUSHION CUSHION CUSHION CUSHION	K8P8 K9P9	
- 655 656 657 658	2E 1D 2E 2E		J61-0307-05 J02-1467-03 J19-5915-05 J19-6002-04 J19-6069-05	WIRE BAND FOOT (D=60,H=21.5) UNIT HOLDER UNIT HOLDER UNIT HOLDER		
659 671	1E 1E	*	J19-6312-05 J42-0083-05	UNIT HOLDER POWER CORD BUSHING		
680 680 681 681 682	2D 2D 2D 2D 2D 2D	***	K29-8432-04 K29-8433-04 K29-8434-13 K29-8446-13 K29-8435-01	KNOB KNOB KNOB KNOB KNOB	K8P8 K9P9 K9P9 K8P8 K8P8	
682 683 683 684	2D 2D 2D 2D 2D	* * *	K29-8436-01 K29-8437-04 K29-8439-04 K29-8444-04	KNOB KNOB ASSY KNOB ASSY KNOB	K9P9 K8P8 K9P9 K8P8	

L : Scandinavia	K:USA	P : Canada	R : Mexico	C : China	
L. Stallullavia	N. USA	F . Gallaua	n. IVIEXICO	G. Gillia	
Y : PX(Far Fast Hawaii)	T : Fngland	E : Furone	G : Germany	V : China(Shanghai)	

Y: AAFES(Europe) M: Other Areas ⚠ indicates safety critical components. X: Australia Q: Russia H: Korea

I: Malaysia

* New Parts

Y: AAFES(Europe)

X : Australia

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le **Parts No.** ne sont pas fournis. Teile ohne **Parts No.** werden nicht geliefert.

	Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
	684	2D	*	K29-8445-04	KNOB	K9P9	
⚠	685	2D		L07-3285-15	POWER TRANSFORMER		
	A G J M N		*	N84-2005-48 N82-2608-48 N89-3008-48 N89-3018-48 N89-3010-48	PAN HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW		
	P R		*	N84-3005-48 N84-2605-48	PAN HEAD TAPTITE SCREW PAN HEAD TAPTITE SCREW	K9P9	
	690 691 692	1C 1C 2C		T90-0893-05 T90-0905-05 T99-0672-05	LOOP ANTENNA LEAD WIRE ANTENNA MAGNET		
	Q11 ,12 Q13 ,14 Q31 ,32 Q33 ,34 Q51 ,52		* * * * *	TRAIT3KNNF TRAIT3KPNF TRAIT3KNNF TRAIT3KPNF TRAIT3KNNF	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
	Q53 ,54 Q718 Q720		* * *	TRAIT3KPNF TRAIT3KNNF TRAIT3KPNF	TRANSISTOR TRANSISTOR TRANSISTOR		
	694	1E		W02-2974-15	TUNER ASSY		
					VR-9060		
	601 601 603 603 604	1C 1C 2C 2C 2D	*	A01-3950-01 A01-3951-01 A21-5486-02 A21-5487-02 A22-1906-01	METALLIC CABINET METALLIC CABINET DRESSING PANEL DRESSING PANEL SUB PANEL	K6P6 K7P7 K6P6 K7P7 K6P6	
	604 605 605 606 606	2D 2C 2C 2C 2C 2C	*	A22-1907-01 A52-1021-01 A52-1022-01 A60-2428-01 A60-2429-01	SUB PANEL DOOR DOOR PANEL PANEL	K7P7 K6P6 K7P7 K6P6 K7P7	
	607	1C	*	A70-1671-05	REMOTE CONTROLLER ASSY		
	- 610 610 612	2D 2D 2C	*	B60-5551-00 B60-5552-00 B03-3953-02 B03-3954-02 B10-5563-02	INSTRUCTION MANUAL (EN) INSTRUCTION MANUAL (FR) DRESSING PLATE DRESSING PLATE FRONT GLASS	P6P7 K6P6 K7P7	
	613 614 614 616	2C 2C 2C 2C	*	B11-1616-03 B12-0490-04 B12-0492-04 B43-0336-04	COLOR FILTER INDICATOR ASSY INDICATOR ASSY BADGE	K6P6 K7P7	
	620	2C		D39-0321-05	DAMPER		
⚠	626 627 628	1E 1D,2E 2E		E30-7329-05 E35-3216-05 E35-3746-05	AC POWER CORD FLAT CABLE FLAT CABLE		
	637	1C,1D		F29-0134-04	INSULATING WASHER		
	643 644	1D 2C,2E		G11-2416-04 G11-2885-04	CUSHION		

L: Scandinavia K:USA P: Canada R: Mexico C: China I: Malaysia Y: PX(Far East, Hawaii) T: England E: Europe G: Germany V: China(Shanghai)

H: Korea

Q: Russia

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.

* New Parts

0

Parts without Parts No. are not supplied.

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Teile ohne Parts No. werden nicht geliefert.

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$\boldsymbol{\sigma}$
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KRF-V7090D/VR-9050/9060/9070

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
607 607 607	1C 1C 1C	* *	A70-1673-05 A70-1673-05 A70-1674-05	REMOTE CONTROLLER ASSY REMOTE CONTROLLER ASSY REMOTE CONTROLLER ASSY	K4K5P4 P5 X5E4E5	
- - - -			B60-5534-00 B60-5534-00 B60-5535-00 B60-5536-00 B60-5537-00	INSTRUCTION MANUAL (EN) INSTRUCTION MANUAL (EN) INSTRUCTION MANUAL (FR) INSTRUCTION MANUAL (6-LN) INSTRUCTION MANUAL (EN)	K4K5P4 P5 P4P5 E4E5 X5	
610 610 610 615 615	3A 3A 3A 2A 2A	*	B07-2606-03 B07-2607-03 B07-2607-03 B10-5571-02 B10-5571-02	ESCUTCHEON ESCUTCHEON ESCUTCHEON FRONT GLASS FRONT GLASS	K4P4E4 E5 K5P5X5 K4K5P4 P5	
615 616 617 618 619	2A 2A 2A 3A 3A	* *	B10-5572-02 B11-1618-03 B12-0484-14 B12-0486-03 B07-2720-01	FRONT GLASS COLOR FILTER INDICATOR INDICATOR ESCUTCHEON	X5E4E5 K4P4E4	
619 619 620	3A 3A 2A	*	B07-2721-01 B07-2721-01 B43-0336-04	ESCUTCHEON ESCUTCHEON BADGE	E5 K5P5X5	
626 626 626 626 627	1E 1E 1E 1E 1D,2E		E30-7329-05 E30-7329-05 E30-7330-05 E30-7346-05 E35-3216-05	AC POWER CORD AC POWER CORD AC POWER CORD AC POWER CORD FLAT CABLE	K4K5P4 P5 X5 E4E5	
628	1E		E35-3746-05	FLAT CABLE		
637	1C,1D		F29-0134-04	INSULATING WASHER		
643 644 645 647 648	1D 2A,2E 1D 1D 1D		G11-2416-04 G11-2885-04 G11-2886-04 G11-2916-04 G11-2958-04	CUSHION CUSHION CUSHION CUSHION CUSHION		
649	1E		G11-2959-04	CUSHION		
- 655 656 657 658	2E 1D 2E 2E		J61-0307-05 J02-1532-03 J19-5915-05 J19-6002-04 J19-6069-05	WIRE BAND FOOT UNIT HOLDER UNIT HOLDER UNIT HOLDER		
659 671	1E 1E		J19-6312-05 J42-0083-05	UNIT HOLDER POWER CORD BUSHING		
680 680 680 681 681	3A 3A 3A 2A,3A 2A,3A		K29-8352-14 K29-8353-04 K29-8353-04 K29-8364-11 K29-8365-01	KNOB KNOB KNOB KNOB KNOB	K4P4E4 E5 K5P5X5 K4P4E4 E5	
681 682 682 682 684	2A,3A 2B 2B 2B 3A		K29-8365-01 K29-8358-13 K29-8362-03 K29-8362-03 K29-8103-04	KNOB KNOB ASSY KNOB ASSY KNOB ASSY KNOB	K5P5X5 K4P4E4 E5 K5P5X5 K4P4E4	

	Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
	645 646 647 648 649	1D 2C 1D 1D 1E		G11-2886-04 G11-2887-04 G11-2916-04 G11-2958-04 G11-2959-04	CUSHION CUSHION CUSHION CUSHION CUSHION		
	650 650	2C,2D 2C,2D		G11-2968-04 G11-2969-04	CUSHION	K6P6 K7P7	
	- 655 656 657 658	2E 1D 2E 2E		J61-0307-05 J02-1467-03 J19-5915-05 J19-6002-04 J19-6069-05	WIRE BAND FOOT (D=60,H=21.5) UNIT HOLDER UNIT HOLDER UNIT HOLDER		
⚠	659 671	1E 1E		J19-6312-05 J42-0083-05	UNIT HOLDER POWER CORD BUSHING		
	680 680 681 681 682	2D 2D 2D 2D 2D 2D		K29-8432-04 K29-8433-04 K29-8434-13 K29-8446-13 K29-8435-01	KNOB KNOB KNOB KNOB KNOB	K6P6 K7P7 K7P7 K6P6 K6P6	
	682 683 683 684 684	2D 2D 2D 2D 2D 2D		K29-8436-01 K29-8437-04 K29-8439-04 K29-8444-04 K29-8445-04	KNOB KNOB ASSY KNOB ASSY KNOB KNOB	K7P7 K6P6 K7P7 K6P6 K7P7	
Δ	685	2D		L07-3285-15	POWER TRANSFORMER		
	A G J M N			N84-2005-48 N82-2608-48 N89-3008-48 N89-3018-48 N89-3010-48	PAN HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW		
	P R			N84-3005-48 N84-2605-48	PAN HEAD TAPTITE SCREW PAN HEAD TAPTITE SCREW	K7P7	
	690 691 692	1C 1C 2C		T90-0893-05 T90-0905-05 T99-0672-05	LOOP ANTENNA LEAD WIRE ANTENNA MAGNET		
	Q11 ,12 Q13 ,14 Q31 ,32 Q33 ,34 Q51 ,52			TRAIT3KNNF TRAIT3KPNF TRAIT3KNNF TRAIT3KPNF TRAIT3KNNF	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
	Q53 ,54 Q718 Q720			TRAIT3KPNF TRAIT3KNNF TRAIT3KPNF	TRANSISTOR TRANSISTOR TRANSISTOR		
	694	1E		W02-2974-15	TUNER ASSY		
				KRF	-V7090D/VR-9050		
	601 601 601 606 606	1C 1C 1C 3B 3B	* * *	A01-3948-01 A01-3949-01 A01-3949-01 A60-2425-01 A60-2426-01	METALLIC CABINET METALLIC CABINET METALLIC CABINET PANEL PANEL	K4P4E4 E5 K5P5X5 K4P4E4 E5	
	606	3B	*	A60-2426-01	PANEL	K5P5X5	

L: Scandinavia Y: AAFES(Europe)

K: USA Y: PX(Far East, Hawaii) T: England X : Australia

Q: Russia

P: Canada R: Mexico E: Europe

G: Germany H: Korea

C: China V: China(Shanghai)

I: Malaysia

Y: PX(Far East, Hawaii) Y: AAFES(Europe)

T: England X : Australia

E: Europe Q: Russia

G: Germany H:Korea

V: China(Shanghai)

M: Other Areas ⚠ indicates safety critical components.

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	Ref. No	Add- ress	New Parts	Parts No.	De	escription		Desti- nation	Re- marks
	584 584	3A 3A		K29-8104-04 K29-8104-04	KNOB KNOB			E5 K5P5X5	
6	885 885 885 885 885	2D 2D 2D 2D 2D 2D	L07-3285-15					K4K5P4 P5 E4E5 X5 E4E5	
JNN	N N			N82-2608-48 N89-3008-48 N89-3018-48 N89-3010-48 N84-3005-48	BINDING HEAD TA BINDING HEAD TA BINDING HEAD TA BINDING HEAD TA PAN HEAD TAPTIT	APTITE SCR APTITE SCR APTITE SCR	EW EW		
6	690 691 691 691	1C 1C 1C 1C		T90-0893-05 T90-0855-05 T90-0905-05 T90-0905-05	LOOP ANTENNA LEAD WIRE ANTEI LEAD WIRE ANTEI LEAD WIRE ANTEI	NNA		X5E4E5 K4K5P4 P5	
	Q11 ,12 Q13 ,14 Q31 ,32 Q33 ,34 Q51 ,52			TRAIT3KNNF TRAIT3KPNF TRAIT3KNNF TRAIT3KPNF TRAIT3KNNF	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR				
	253 ,54 2718 2720 FH1	2E		TRAIT3KPNF TRAIT3KNNF TRAIT3KPNF DP40203SG270	TRANSISTOR TRANSISTOR TRANSISTOR THERMISTOR			X5E4E5	
6	694 694 694	1E 1E 1E		W02-2974-15 W02-2974-15 W02-2976-05	TUNER ASSY TUNER ASSY TUNER ASSY			K4K5P4 P5 X5E4E5	
			•	SURRO	OUND (X08-3	390-10)		•	•
	01 ,2 03 ,4 05 ,6 07 08 ,9			CK73GB1H472K CC73GCH1H220J CD04BJ1E470M CD04BJ1H100M CC73GCH1H221J	CHIP C CHIP C ELECTRO ELECTRO CHIP C	4700PF 22PF 47UF 10UF 220PF	K J 25WV 50WV J	6789	
	011 012 013 ,14 015 016			CK73GB1H104K CK73GB1A474K CK73GB1H104K CK73GB1H102K CK73GB1H103K	CHIP C CHIP C CHIP C CHIP C CHIP C	0.10UF 0.47UF 0.10UF 1000PF 0.010UF	K K K K		
	041 042 043 044 ,45 046			CK73GB1H104K CK73GB1H103K CD04BJ1H2R2M CK73GB1H104K CD04BJ1E470M	CHIP C CHIP C ELECTRO CHIP C ELECTRO	0.10UF 0.010UF 2.2UF 0.10UF 47UF	K K 50WV K 25WV		
	047 ,48 049 050 ,51 057 ,58 061 ,62			CD04BJ1H4R7M CD04BJ1H100M CK73GB1H103K CC73GSL1H471J CC73GCH1H080D	ELECTRO ELECTRO CHIP C CHIP C CHIP C	4.7UF 10UF 0.010UF 470PF 8.0PF	50WV 50WV K J D		
	063 064 065 066 079			CK73GB1H102K CK73GB1C563K CD04BJ1E470M CC73GCH1H220J CK73GB1H103K	CHIP C CHIP C ELECTRO CHIP C CHIP C	1000PF 0.056UF 47UF 22PF 0.010UF	K K 25WV J K		

L: Scandinavia	K:USA	P: Canada	R: Mexico	C: China	I : Malaysia
Y: PX(Far East, Hawaii)	T: England	E: Europe	G: Germany	V: China(Shanghai)	
Y: AAFES(Europe)	X: Australia	Q: Russia	H: Korea	M: Other Areas	♠ indicates safety critical components.

* New Parts

L: Scandinavia

Y: PX(Far East, Hawaii)

Y: AAFES(Europe)

K:USA

T: England

X: Australia

P: Canada

E: Europe

Q: Russia

R: Mexico

H:Korea

G: Germany

C: China

V: China(Shanghai)

I: Malaysia

M: Other Areas ⚠ indicates safety critical components

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Teile ohne Parts No. werden nicht geliefert.

Ref. No	Add- ress	New Parts	Parts No.		Description		Desti- nation	Re- marks
C80 C81 C82 C83 ,84 C85			CK73FB1E104K CK73GB1H104K CD04BJ1H100M CK73GB1H104K CD04BJ1H100M	CHIP C CHIP C ELECTRO CHIP C ELECTRO	0.10UF 0.10UF 10UF 0.10UF 10UF	K K 50WV K 50WV		
C88 C89 C90 C91 C92			CD04BJ1H100M CK73FB1E104K CK73GB1H104K CD04BJ1H100M CK73FB1E104K	ELECTRO CHIP C CHIP C ELECTRO CHIP C	10UF 0.10UF 0.10UF 10UF 0.10UF	50WV K K 50WV K		
C93 C94 C95 C96 C97			CK73GB1H104K CD04BJ1H100M CK73FB1C105K CK73GB1H104K CD04BJ1A101M	CHIP C ELECTRO CHIP C CHIP C ELECTRO	0.10UF 10UF 1.0UF 0.10UF 100UF	K 50WV K K 10WV		
C98 C99 C100 C101,102 C103-106			CK73FB1E104K CK73GB1H103K CD04BJ1C472M CD04BJ1H100M CK73GB1H182K	CHIP C CHIP C ELECTRO ELECTRO CHIP C	0.10UF 0.010UF 4700UF 10UF 1800PF	K K 16WV 50WV K		
C109 C110 C121,122 C123,124 C125,126			CC73GCH1H101J CK73GB1H103K CD04BJ1H100M CK73GB1H222K CK73GB1H821K	CHIP C CHIP C ELECTRO CHIP C CHIP C	100PF 0.010UF 10UF 2200PF 820PF	J K 50WV K K		
C129 C130 C141,142 C143-146 C149			CC73GCH1H101J CK73GB1H103K CD04BJ1H100M CK73GB1H182K CC73GCH1H101J	CHIP C CHIP C ELECTRO CHIP C CHIP C	100PF 0.010UF 10UF 1800PF 100PF	J K 50WV K J		
C150 C161,162 C163 C164 C165			CK73GB1H103K CD04BJ1H100M CK73GB1H182K CK73GB1H822K CK73GB1H822K	CHIP C ELECTRO CHIP C CHIP C CHIP C	0.010UF 10UF 1800PF 8200PF 1800PF	K 50WV K K K		
C166 C169 C170 C181,182 C189			CK73GB1H822K CC73GCH1H101J CK73GB1H103K CC73GCH1H220J CC73GCH1H101J	CHIP C CHIP C CHIP C CHIP C CHIP C	8200PF 100PF 0.010UF 22PF 100PF	K J K J		
C190 C191-196 C197 C198 C261,262			CK73GB1H103K CD04BJ1H4R7M CK73GB1H102K CC73GCH1H101J CD04BJ1H100M	CHIP C ELECTRO CHIP C CHIP C ELECTRO	0.010UF 4.7UF 1000PF 100PF 10UF	K 50WV K J 50WV		
C263,264 C265,266 C267 C268 C501-528			CC73GCH1H220J CD04BJ1H4R7M CC73GCH1H101J CK73GB1H103K CK73GB1H103K	CHIP C ELECTRO CHIP C CHIP C CHIP C	22PF 4.7UF 100PF 0.010UF 0.010UF	J 50WV J K K		
C529 C530-543 C544,545 C546-553 C554			CD04BJ1H100M CK73GB1H103K CK73GB1H104K CK73GB1H103K CK73GB1H104K	ELECTRO CHIP C CHIP C CHIP C CHIP C	10UF 0.010UF 0.10UF 0.010UF 0.10UF	50WV K K K K		

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KRF-V7090D/VR-9050/9060/9070

Ref. No	Add- ress	New Parts	Parts No.		Description			Desti- nation	m
R86 R86 R87 R88 R89			RS14KB3D3R3J RS14KB3D3R9J RS14KB3D3R3J RS14KB3D2R2J RK73GB2A202J	FL-PROOF RS FL-PROOF RS FL-PROOF RS FL-PROOF RS CHIP R	3.3 3.9 3.3 2.2 2.0K]]]	2W 2W 2W 2W 1/10W	6789 E4E5	
R90 ,91 R92 R93 R94 R95			RK73GB2A103J RK73GB2A152J RK73GB2A102J RK73GB2A472J RK73GB2A473J	CHIP R CHIP R CHIP R CHIP R CHIP R	10K 1.5K 1.0K 4.7K 47K]]]	1/10W 1/10W 1/10W 1/10W 1/10W		
R96 ,97 R98 R101,102 R103,104 R105,106			RK73GB2A221J R92-1918-05 RK73GB2A104J RK73GB2A222J RK73GB2A102J	CHIP R CHIP R CHIP R CHIP R CHIP R	220 0.33 100K 2.2K 1.0K]]]	1/10W 1/4W 1/10W 1/10W 1/10W		
R107,108 R109,110 R111,112 R121,122 R123,124			RK73GB2A103J RK73GB2A472J RK73GB2A221J RK73GB2A104J RK73GB2A332J	CHIP R CHIP R CHIP R CHIP R CHIP R	10K 4.7K 220 100K 3.3K]]]	1/10W 1/10W 1/10W 1/10W 1/10W		
R125,126 R127,128 R129,130 R131,132 R141,142			RK73GB2A911J RK73GB2A272J RK73GB2A562J RK73GB2A221J RK73GB2A104J	CHIP R CHIP R CHIP R CHIP R CHIP R	910 2.7K 5.6K 220 100K]]]	1/10W 1/10W 1/10W 1/10W 1/10W		
R143,144 R145,146 R147,148 R149,150 R151,152			RK73GB2A222J RK73GB2A102J RK73GB2A103J RK73GB2A472J RK73GB2A221J	CHIP R CHIP R CHIP R CHIP R CHIP R	2.2K 1.0K 10K 4.7K 220]]]	1/10W 1/10W 1/10W 1/10W 1/10W		
R161,162 R163 R164 R165 R166			RK73GB2A104J RK73GB2A222J RK73GB2A273J RK73GB2A102J RK73GB2A183J	CHIP R CHIP R CHIP R CHIP R CHIP R	100K 2.2K 27K 1.0K 18K]]]	1/10W 1/10W 1/10W 1/10W 1/10W		
R167,168 R169 R170 R171,172 R181,182			RK73GB2A103J RK73GB2A472J RK73GB2A912J RK73GB2A221J RK73GB2A102J	CHIP R CHIP R CHIP R CHIP R CHIP R	10K 4.7K 9.1K 220 1.0K]]]	1/10W 1/10W 1/10W 1/10W 1/10W		
R185-188 R189,190 R201-208 R209-212 R213,214			RK73GB2A562J RK73GB2A101J RK73GB2A104J RK73GB2A472J RK73GB2A432J	CHIP R CHIP R CHIP R CHIP R CHIP R	5.6K 100 100K 4.7K 4.3K]]]	1/10W 1/10W 1/10W 1/10W 1/10W		
R215,216 R217,218 R219,220 R261-264 R265,266			RK73GB2A562J RK73GB2A472J RK73GB2A562J RK73GB2A562J RK73GB2A101J	CHIP R CHIP R CHIP R CHIP R CHIP R	5.6K 4.7K 5.6K 5.6K 100]]]	1/10W 1/10W 1/10W 1/10W 1/10W		
R501,502 R503-506 R507-509 R510 R511			RK73GB2A330J RK73GB2A104J RK73GB2A101J RK73GB2A104J RK73GB2A330J	CHIP R CHIP R CHIP R CHIP R CHIP R	33 100K 100 100K 33	J	1/10W 1/10W 1/10W 1/10W 1/10W		

Add- ress	New Parts	Parts No.	De	scription			Desti- nation	Re- marks
		CK73GB1H103K CK73GB1H102K CK73GB1H103K CC73GCH1H101J CK73GB1H103K	CHIP C CHIP C CHIP C CHIP C CHIP C	0.010UF 1000PF 0.010UF 100PF 0.010UF	K K K J K			
		CK73GB1H103K CC73GCH1H150J CK73GB1H102K CK73GB1H103K CC73GCH1H100D	CHIP C CHIP C CHIP C CHIP C CHIP C	0.010UF 15PF 1000PF 0.010UF 10PF	K K K D			
		CC73GCH1H101J CK73GB1H681K CC73GCH1H101J CC73GCH1H100D	CHIP C CHIP C CHIP C CHIP C	100PF 680PF 100PF 10PF	J K J D			
	*	E41-1435-05 E63-1387-05	FLAT CABLE CONI PIN JACK	NECTOR				
		L92-0510-05 L92-0578-05 L77-2419-05 L77-2420-05						
		RK74GB1J220J RK74GB1J181J RK73GB2A101J RK73EB2E4R7J RK73GB2A471J	CHIP-COM CHIP-COM CHIP R CHIP R CHIP R	22 180 100 4.7 470	J J J	1/16W 1/16W 1/10W 1/4W 1/10W	6789	
		RK73EB2E4R7J RK73EB2E4R7J RK73GB2A750J RK73GB2A101J RK73GB2A183J	CHIP R CHIP R CHIP R CHIP R CHIP R	4.7 4.7 75 100 18K	J J J	1/4W 1/4W 1/10W 1/10W 1/10W	6789	
		RK73GB2A330J RK73GB2A101J RK73GB2A104J RK73GB2A101J RK73GB2A102J	CHIP R CHIP R CHIP R CHIP R CHIP R	33 100 100K 100 1.0K	J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
		RK73GB2A181J RK73GB2A330J RK73GB2A104J RK73GB2A101J RK73GB2A100J	CHIP R CHIP R CHIP R CHIP R CHIP R	180 33 100K 100 10]]]	1/10W 1/10W 1/10W 1/10W 1/10W		
		RK73GB2A181J RK73GB2A100J RK73EB2E4R7J RK73GB2A471J RK73GB2A105J	CHIP R CHIP R CHIP R CHIP R CHIP R	180 10 4.7 470 1.0M]]]	1/10W 1/10W 1/4W 1/10W 1/10W		
		RK73GB2A221J RK73FB2A2R2J RK73GB2A330J RK73EB2E2R2J R92-1918-05	CHIP R CHIP R CHIP R CHIP R CHIP R	220 2.2 33 2.2 0.33]]]	1/10W 1/10W 1/10W 1/4W 1/4W		
		RS14KB3D680J RS14KB3D560J RS14KB3D3R3J RS14KB3D3R3J	FL-PROOF RS FL-PROOF RS FL-PROOF RS FL-PROOF RS	68 56 3.3 3.3	J J	2W 2W 2W 2W	K4K5P4 P5X5	
		ress Parts	Parts Parts No.	Parts No.	Parts Parts No.	Parts Part	Parts Part	Parts Part

L: Scandinavia Y: PX(Far East, Hawaii) T: England Y: AAFES(Europe)

K: USA X : Australia P: Canada R: Mexico E: Europe G: Germany

Q: Russia

H: Korea

C: China V: China(Shanghai)

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Remarks

Destination

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X5E4E5 X5E4E5

Ref. No	Add- ress	New Parts	Parts No.	D	escription			Desti- nation	Re- marks		Ref. No	Add- ress	New Parts	Parts No.		Description		T
R512 R513-515 R516 R517 R518			RK73GB2A101J RK73GB2A104J RK73GB2A101J RK73GB2A220J RK73FB2A100J	CHIP R CHIP R CHIP R CHIP R CHIP R	100 100K 100 22 10	J J J	1/10W 1/10W 1/10W 1/10W 1/10W			Δ. Δ. Δ.			*	BA05T XC6201P332PRN SI-3010KM ADSST-AVR-1090 SN74LVC573APWF				Ī
R521 R523,524 R525,526 R527 R528-530			RK73GB2A472J RK73GB2A472J RK73GB2A220J RK73GB2A101J RK73GB2A472J	CHIP R CHIP R CHIP R CHIP R CHIP R	4.7K 4.7K 22 100 4.7K	J J J	1/10W 1/10W 1/10W 1/10W 1/10W				IC54 IC55 IC56 IC57 IC58			SN74LVC245APWF SN74LVC2G125T3 SN74LVC139APWF SN74LVC1G08DC3 SN74LVC1G32DC3	MOS-IC RMOS-IC MOS-IC			
R532-534 R536 R537-540 R541-548 R549			RK73GB2A472J RK73GB2A103J RK73GB2A472J RK73GB2A100J RK73GB2A101J	CHIP R CHIP R CHIP R CHIP R CHIP R	4.7K 10K 4.7K 10 100	J J J	1/10W 1/10W 1/10W 1/10W 1/10W				IC59 IC59 IC60 IC61 IC62		*	A29L800TV7FKF0 A29L800TV7FKG0 K6R4008V1DUC10 TC74VHC125FT TC74HCT7007AF	ROM IC			
R550 R551 R552 R553,554 R560-567			RK73GB2A100J RK73GB2A104J RK73GB2A102J RK73GB2A100J RK73GB2A472J	CHIP R CHIP R CHIP R CHIP R CHIP R	10 100K 1.0K 10 4.7K	J J J	1/10W 1/10W 1/10W 1/10W 1/10W				IC63 Q1 Q2 Q51			SN74LVC1G32DC3 2SB1218A(Q,R) 2SD1819A(Q,R) 2SC4081(R,S)	MOS-IC TRANSISTOR TRANSISTOR TRANSISTOR			
R571 R572			RK73GB2A105J RK73GB2A101J	CHIP R	1.0M 100	J J	1/10W 1/10W				A1 ,2 A3			W02-4524-05 W02-4540-05	OPTIC RECEIVING M	ODULE		
R573 R574 R581			RK73GB2A105J RK73GB2A103J RK73GB2A104J	CHIP R CHIP R CHIP R	1.0M 10K 100K	J J J	1/10W 1/10W 1/10W				C1 ,2			AUD CC45FSL1H221J	IO (X09-696	220PF	J	Т
R601,602 R603,604 R901-904 R907,908			RK73GB2A100J RK73GB2A120J RK73GB2A000JK RK73GB2A000JK	CHIP R CHIP R CHIP R CHIP R	10 12 0 0	J J J	1/10W 1/10W 1/10W 1/10W				C3 ,4 C5 ,6 C7 ,8 C9 ,10			CD04BJ1H100M CC45FSL1H221J CD04BJ1A101M CC45FSL1H271J	ELECTRO CERAMIC ELECTRO CERAMIC	10UF 220PF 100UF 270PF	50WV J 10WV J	
D1 D2 -4 D5 D6 ,7 D8			D2SBA207009F01 MA111 UDZS5.6B UDZS3.9B 1SR154-400	DIODE DIODE ZENER DIODE ZENER DIODE DIODE	Ü	Ü	1,1011				C11 ,12 C13 ,14 C15 ,16 C17 ,18 C19 -38			CK45FB1H332K CD04BJ1H4R7M CC45FSL1H101J CC45FSL1H221J	MYLAR CERAMIC ELECTRO CERAMIC CERAMIC	0.012UF 3300PF 4.7UF 100PF 220PF	J K 50WV J J	
D9 D10 D11 ,12 D13 -16 D17			UDZS3.9B UDZS5.1B DAN202U MA111 1SR154-400	ZENER DIODE ZENER DIODE DIODE DIODE DIODE							C39 C40 C41 C42 C44 ,45			CC45FSL1H101J CK45FF1H103Z CK45FF1H103Z CK45FF1H103Z CD04BJ1E470M	CERAMIC CERAMIC CERAMIC CERAMIC ELECTRO	100PF 0.010UF 0.010UF 0.010UF 47UF	J Z Z Z 25WV	
D41 D42 D51 IC1 IC2			DAP202U DAN202U MA111 AK4114VQ AK4628-VQ	DIODE DIODE DIODE MOS-IC MOS-IC							C46 ,47 C48 ,49 C51 -54 C55 ,56 C57 ,58			CD04BJ1H2R2M	MYLAR CERAMIC MP-C MYLAR ELECTRO	0.082UF 100PF 0.10UF 2700PF 2.2UF	J J J 50WV	
IC6 IC10 IC12 IC14 IC16			TC7WU04FU NJM4565MD-ZB NJM4565MD-ZB NJM4565MD-ZB NJM4565MD-ZB	MOS-IC ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC							C62 ,63 C64 ,65 C66 ,67 C68 C69		*	CD04BJ1H3R3M CD04BJ2A3R3M CC45FSL1H331J CC45FCH1H070D CC45FCH1H080D	ELECTRO ELECTRO CERAMIC CERAMIC CERAMIC	3.3UF 3.3UF 330PF 7.0PF 8.0PF	50WV 100WV J D D	
IC18 IC18 IC19 IC20 IC21,22			NJM4565MD-ZB NJM5532MD NJM4565MD-ZB NJU7311AM BA033T	ANALOGUE IC ANALOGUE IC ANALOGUE IC MOS-IC ANALOGUE IC				45 6789			C70 ,71 C72 ,73 C74 ,75 C76 ,77 C78 ,79			CK45FB1H222K CC45FSL1H101J CD04BJ1A221M CC45FCH1H150J CK45FB1H561K	CERAMIC CERAMIC ELECTRO CERAMIC CERAMIC	2200PF 100PF 220UF 15PF 560PF	K J 10WV J K	
1021,22			DA0331	ANALOGUE IC							C84 ,85 C86 ,87			CD04BJ1E470M CC45FSL1H151J	ELECTRO CERAMIC	47UF 150PF	25WV J	

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L: Scandinavia	
Y: PX(Far East, Ha	wai
Y: AAFES(Europe)

a **K**:USA t,Hawaii) **T**:England ope) **X**:Australia

P:Canada
and E:Europe
alia Q:Russia

anada R:M urope G:Ge

R: Mexico G: Germany H: Korea

ico **C**: China **I**: Malaysia nany **V**: China(Shanghai)

M: Other Areas ⚠ indicates safety critical components.

L: Scandinavia Y: PX(Far East, Hawaii) Y: AAFES(Europe)

K: USA T: England X: Australia

P: Canada R: Mexico E: Europe G: Germa O: Russia H: Korea

R: Mexico C: China G: Germany V: China(H: Korea M: Other I : Malaysia

Parts without **Parts No.** are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

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			nes dans le Parts No erden nicht geliefert.	o. He som pas rourni	5.			Ø
Ref. No	Add- ress	New Parts	Parts No.	De	escription		Desti- nation	Re- marks
C88 ,89 C90 ,91 C90 ,91 C90 ,91 C90 ,91			CC45FSL2H470J C91-1573-05 C91-1573-05 C91-1573-05 C91-1577-05	CERAMIC MP-C MP-C MP-C MP-C	47PF 0.10UF 0.10UF 0.10UF 0.22UF) 	K4K5P4 P5 6789 X5E4E5	
C92 ,93 C94 ,95 C111-114 C115,116 C117,118			C91-1577-05 CK45FB1H332K CD04BJ1H3R3M CC45FSL1H331J CC45FCH1H050C	MP-C CERAMIC ELECTRO CERAMIC CERAMIC	0.22UF 3300PF 3.3UF 330PF 5.0PF	J K 50WV J C	X5E4E5	
C119,120 C121,122 C123,124 C125,126 C127,128			CK45FB1H222K CC45FSL1H101J CD04BJ1A221M CC45FCH1H150J CK45FB1H561K	CERAMIC CERAMIC ELECTRO CERAMIC CERAMIC	2200PF 100PF 220UF 15PF 560PF	K J 10WV J K		
C133,134 C135,136 C137,138 C139-142 C139,140			CD04BJ1H220M CC45FSL1H151J CC45FSL2H470J C91-1577-05 C91-1573-05	ELECTRO CERAMIC CERAMIC MP-C MP-C	22UF 150PF 47PF 0.22UF 0.10UF	50WV J J J	X5E4E5 K4K5P4	
C139,140 C139,140 C161 C163 C165		*	C91-1573-05 C91-1573-05 CD04BJ1H3R3M CD04BJ2A3R3M CC45FSL1H331J	MP-C MP-C ELECTRO ELECTRO CERAMIC	0.10UF 0.10UF 3.3UF 3.3UF 330PF	J J 50WV 100WV J	P5 6789	
C167 C169 C171 C173 C175			CC45FCH1H060D CK45FB1H222K CC45FSL1H101J CD04BJ1A221M CC45FCH1H150J	CERAMIC CERAMIC CERAMIC ELECTRO CERAMIC	6.0PF 2200PF 100PF 220UF 15PF	D K J 10WV J		
C177 C183 C185 C187 C189-192			CK45FB1H561K CD04BJ1E470M CC45FSL1H151J CC45FSL2H470J C91-1577-05	CERAMIC ELECTRO CERAMIC CERAMIC MP-C	560PF 47UF 150PF 47PF 0.22UF	K 25WV J J	X5E4E5	
C189,190 C189,190 C189,190 C193 C195,196			C91-1573-05 C91-1573-05 C91-1573-05 CK45FB1H332K CK45FB1H332K	MP-C MP-C MP-C CERAMIC CERAMIC	0.10UF 0.10UF 0.10UF 3300PF 3300PF	J J K K	K4K5P4 P5 6789	
C301,302 C303 C304 C305 C306		*	C90-5840-05 CQ93FMG1H103J CD04BJ1A221M CD04BJ1H101M CD04BJ2A101M1	ELECTRO MYLAR ELECTRO ELECTRO ELECTRO	0.01UF 0.010UF 220UF 100UF 100UF	75WV J 10WV 50WV 100WV		
C308 C309-311 C312 C315 C316		*	CD04BJ1H100M CD04BJ1H220M CD04BJ1A101M CD04BJ2A330M CD04BJ2A100M	ELECTRO ELECTRO ELECTRO ELECTRO ELECTRO	10UF 22UF 100UF 33UF 10UF	50WV 50WV 10WV 100WV 100WV		
C317,318 C319,320 C323 C324,325 C351-353		*	CD04BJ2A220M CC45FSL1H101J CK45FB1H102K CD04BJ1C471M CC45FSL1H221J	ELECTRO CERAMIC CERAMIC ELECTRO CERAMIC	22UF 100PF 1000PF 470UF 220PF	100WV J K 16WV J		

* New Parts Parts without Parts No. are not supplied. Les articles non mentionnes dans le **Parts No.** ne sont pas fournis. Teile ohne Parts No. werden nicht geliefert.



KRF-V7090D/VR-9050/9060/9070

Ref. No	Add- ress	New Parts	Parts No.		Description		Desti- nation	Re- mark
C354 C355-360 C361,362 C363 C364		*	CQ93FMG1H122J CK45FF1H472Z CD04BJ1H220M CD04BJ1E470M CD04AU1H2R2M	MYLAR CERAMIC ELECTRO ELECTRO NP-ELEC	1200PF 4700PF 22UF 47UF 2.2UF	J Z 50WV 25WV 50WV		
C365 C366 C367 C368 C369			CD04BJ1A221M CD04BJ1H4R7M CD04BJ1A221M CD04BJ1H4R7M CD04AU1E220M	ELECTRO ELECTRO ELECTRO ELECTRO NP ELEC	220UF 4.7UF 220UF 4.7UF 22UF	10WV 50WV 10WV 50WV 25WV		
C370 C450 C451-453 C501,502 C503			CK45FB1H102K CK45FE2H103P CK45FB2H102K CC45FSL1H221J CK45FF1H103Z	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	1000PF 0.010UF 1000PF 220PF 0.010UF	K P K J Z		
C600 C609 C610 C611 C722		*	CD04BJ1E101M CC45FCH1H100D CD04BJ2A101M1 CD04BJ1H220M CD04BJ1H220M	ELECTRO CERAMIC ELECTRO ELECTRO ELECTRO	100UF 10PF 100UF 22UF 22UF	25WV D 100WV 50WV		
CN4 ,5 J3 J5 J6 J11 ,12		* *	E41-1435-05 E63-1379-05 E70-1009-05 E70-1010-05 E63-1380-05	FLAT CABLE CO PIN JACK SCREW TERMIN LOCK TERMINAL PIN JACK	IAL BOARD			
J21 ,22 J501		*	E63-1380-05 E11-0993-05	PIN JACK PHONE JACK	(WITH SW L	F)		
E501			J11-0898-05	WIRE CLAMPER			X5E4E5	
L1 -6		*	L39-1631-05	PHASE COMPEN	NSATION COI	L		
R61 ,62 R81 -84 R85 ,86 R87 ,88 R93 -96			RS14KB3A821J RD14NB2E221J RD14NB2E562J RD14NB2E331J RD14NB2E470J	FL-PROOF RS RD RD RD RD RD	820 220 5.6K 330 47	J 1W J 1/4W J 1/4W J 1/4W J 1/4W		
R97 ,98 R99 ,100 R101,102 R103,104 R131-134			RD14NB2E221J RD14NB2E330J RS14KB3D4R7J RS14KB3D391J RD14NB2E221J	RD RD FL-PROOF RS FL-PROOF RS RD	220 33 4.7 390 220	J 1/4W J 1/4W J 2W J 2W J 1/4W		
R135,136 R137,138 R143-146 R147,148 R149,150			RD14NB2E562J RD14NB2E331J RD14NB2E470J RD14NB2E221J RD14NB2E330J	RD RD RD RD RD	5.6K 330 47 220 33	J 1/4W J 1/4W J 1/4W J 1/4W J 1/4W		
R151,152 R181 R183 R185 R187			RS14KB3D4R7J RD14NB2E221J RD14NB2E221J RD14NB2E562J RD14NB2E331J	FL-PROOF RS RD RD RD RD	4.7 220 220 5.6K 330	J 2W J 1/4W J 1/4W J 1/4W J 1/4W		
R193 R195 R197,198 R199,200			RD14NB2E470J RD14NB2E470J RD14NB2E221J RD14NB2E330J	RD RD RD RD	47 47 220 33	J 1/4W J 1/4W J 1/4W J 1/4W		

R: Mexico G: Germany

H: Korea

C: China V: China(Shanghai)

I: Malaysia

L: Scandinavia Y: PX(Far East, Hawaii) T: England Y: AAFES(Europe)

K: USA X : Australia Q: Russia

P : Canada E: Europe

R: Mexico G: Germany H: Korea

C: China V: China(Shanghai)

I: Malaysia

M: Other Areas indicates safety critical components .

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.



		Add-	New	raen nicht geliefert.					Desti-	Re-
	Ref. No	ress	Parts	Parts No.		Description			nation	marks
Δ	R201,202 R303 R304 R306 R307			RS14KB3D4R7J RD14NB2E561J RS14KB3A822J RD14NB2E101J RD14NB2E822J	FL-PROOF RS RD FL-PROOF RS RD RD	4.7 560 8.2K 100 8.2K]]]	2W 1/4W 1W 1/4W 1/4W		
	R310 R311 R314 R317 R318			RS14KB3A390J RS14KB3A680J RS14KB3A681J RS14KB3D152J RS14KB3D222J	FL-PROOF RS FL-PROOF RS FL-PROOF RS FL-PROOF RS	39 68 680 1.5K 2.2K	J J J	1W 1W 1W 2W 2W		
<u>^</u>	R321,322 R325,326 R331-333 R342 R343			RD14NB2E1R0J RD14NB2E472J RS14KB3D182J RS14KB3A100J RS14KB3A470J	RD RD FL-PROOF RS FL-PROOF RS FL-PROOF RS	1 4.7K 1.8K 10 47	J J J	1/4W 1/4W 2W 1W 1W		
Δ	R454 R476 R627 R733 R735			RS14KB3A391J RD14NB2E561J RD14NB2E472J RD14NB2E470J RD14NB2E470J	FL-PROOF RS RD RD RD RD	390 560 4.7K 47 47]]]	1W 1/4W 1/4W 1/4W 1/4W		
	VR1 -6			R32-0118-05	SEMI FIXED VAR	RIABLE RES	ISTOR			
	K2 -5			S76-0098-05	MAGNETIC REL	AY				
◮	D1 -5 D6 D7 D8 D12		*	1SS133 1SS133 MTZJ5.1(B) MTZJ3.9(B) D5SBA20-7000	DIODE DIODE ZENER DIODE ZENER DIODE DIODE				X5E4E5 X5E4E5 X5E4E5 X5E4E5	
	D12 D12			D5SBA20-7003 D5SBA20-7003 D5SBA20-7003 S5688B 1SS133	DIODE DIODE DIODE DIODE DIODE				K4K5P4 P5 6789	
	D17 D18 D19 D20 D21			MTZJ16(B) MTZJ15(B) MTZJ16(B) MTZJ6.2(B) MTZJ6.8(B)	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE					
	D22 D23 D23 D23 D23			MTZJ5.1(B) MTZJ13(B) MTZJ15(B) MTZJ15(B) MTZJ15(B)	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE				X5 K4K5P4 P5 6789	
	D23 D24 D24 D24 D24			MTZJ7.5(B) MTZJ7.5(B) MTZJ8.2(B) MTZJ8.2(B) MTZJ8.2(B)	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE				E4E5 X5 K4K5P4 P5E4E5 6789	
	D25 D26 D27 D28 ,29 D32 -35			MTZJ30(B) MTZJ3.9(B) 1SS244 1SS133 1SS133	ZENER DIODE ZENER DIODE DIODE DIODE DIODE DIODE				E4E5	
	D51 ,52			1SS244	DIODE					

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L: Scandinavia	K: USA	P: Canada	R: Mexico	C: China	I: Malaysi
V · PX(Far Fast Hawaii)	T · England	F · Furone	G · Germany	V · China(Shanghai)	,

Y:PX(Far East, Hawaii) 1:England E:Europe G:Germany V:Unina(Shanghai)
Y:AAFES(Europe) X:Australia Q:Russia H:Korea M:Other Areas ⚠ indicates safety critical components.

* New Parts

Parts without Parts No. are not supplied.

Y: PX(Far East, Hawaii) T: England

X : Australia

Y: AAFES(Europe)

Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

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Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	R ma
D53 ,54 D55 ,56 D57 ,58 D59 ,60 D61 ,62			1SS133 1SS244 1SS133 1SS244 1SS133	DIODE DIODE DIODE DIODE DIODE DIODE		
D63 D64 D65 D66 D67			MTZJ3.9(B) 1SS133 MTZJ3.9(B) 1SS133 MTZJ3.9(B)	ZENER DIODE DIODE ZENER DIODE DIODE ZENER DIODE		
D68 D69 D602-604 D608 D609			1SS133 MTZJ3.9(B) 1SS133 MTZJ30(B) MTZJ20(B)	DIODE ZENER DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
IC1 IC2 Q1 -4 Q5 ,6 Q7 -10		*	NJM4580L-ZB M61516FP-RF0G 2SA992(F,E) 2SA1123(R,S) 2SC2631(R,S)	ANALOGUE IC ANALOGUE IC TRANSISTOR TRANSISTOR TRANSISTOR		
Q21 -24 Q25 ,26 Q27 -30 Q41 Q43			2SA992(F,E) 2SA1123(R,S) 2SC2631(R,S) 2SA992(F,E) 2SA992(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q45 Q47 Q49 Q302 Q303			2SA1123(R,S) 2SC2631(R,S) 2SC2631(R,S) DTC113ZSA 2SC3940A(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q304 Q305 Q306 Q307 Q308		*	2SB1640 DTC143ZSA 2SB1640 2SD2525 2SA992(F,E)	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q309-312 Q313 Q331-335 Q353-358 Q359		*	KTC3200 DTC143ZSA 2SC2878(B)-F 2SC1845(F,E) 2SA992(F,E)	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	E4E5	
Q360,361 Q362 Q363,364 Q365 Q602-604			2SC1845(F,E) 2SA992(F,E) 2SC1845(F,E) 2SA992(F,E) 2SC1845(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q605,606 Q607 Q610 Q611 Q612			2SC2878(B)-F 2SA992(F,E) 2SD2012 KTC3199(Y,GR) KTA1267(Y,GR)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	X5E4E5 X5E4E5	
			SU	B (X13-7960-10)		
C101-106 C107,108 C109 C110-115			CC45FCH1H100D CC45FSL1H820J CC45FCH1H100D CD04BJ1H010M	CERAMIC 10PF D CERAMIC 82PF J CERAMIC 10PF D ELECTRO 1.0UF 50WV	6789 6789	

G: Germany

H: Korea

E: Europe

Q: Russia

V: China(Shanghai)

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.



Teile ohne Parts No. werden nicht geliefert.								
Ref. No	Add- ress	New Parts	Parts No.	D	escription		Desti- nation	Re- marks
C116-118 C119-126 C127 C128,129 C128,129			CD04BJ1A471M CK45FF1H103Z CD04BJ1V330M CC45FCH1H100D CC45FSL1H820J	ELECTRO CERAMIC ELECTRO CERAMIC CERAMIC	470UF 0.010UF 33UF 10PF 82PF	10WV Z 35WV D J	6789 45	
C130 C131-133 C134-136 C137 C138-140			CC45FCH1H100D CD04BJ1H010M CK45FF1H103Z CD04BJ1E470M CQ93FMG1H104J	CERAMIC ELECTRO CERAMIC ELECTRO MYLAR	10PF 1.0UF 0.010UF 47UF 0.10UF	D 50WV Z 25WV J	6789 6789	
C141 C142 C143-145 C151,152 C153,154			CC45FCH1H100D CD04BJ1H100M CK73GB1H104K CD04BJ1H4R7M CD04BJ1E470M	CERAMIC ELECTRO CHIP C ELECTRO ELECTRO	10PF 10UF 0.10UF 4.7UF 47UF	D 50WV K 50WV 25WV	4567	
C155,156 C157,158 C169 C201 C202			CC45FSL1H820J CD04BJ1H220M CK73GB1H331K CD04BJ1H100M CK45FF1H103Z	CERAMIC ELECTRO CHIP C ELECTRO CERAMIC	82PF 22UF 330PF 10UF 0.010UF	J 50WV K 50WV Z	89 89	
C203 C205,206 C207 C208 C209			CQ93FMG1H683J CK45FF1H103Z CD04BJ1A101M CD04BJ1A221M CK45FF1H103Z	MYLAR CERAMIC ELECTRO ELECTRO CERAMIC	0.068UF 0.010UF 100UF 220UF 0.010UF	J Z 10WV 10WV Z	89 89 89 89	
C210 C211-213 C214,215 C216 C301-309			CC45FSL1H221J CC45FSL1H101J CK45FF1H103Z CD04BJ1H010M CC45FSL1H221J	CERAMIC CERAMIC CERAMIC ELECTRO CERAMIC	220PF 100PF 0.010UF 1.0UF 220PF	J J Z 50WV J	89 89 89 89	
C310 C311-313 C315-317 C401-406 C407,408			CC45FSL1H221J CK45FB1H332K CC45FSL1H101J CD04BJ1H220M CK45FB1H471K	CERAMIC CERAMIC CERAMIC ELECTRO CERAMIC	220PF 3300PF 100PF 22UF 470PF	J K J 50WV K		
C409,410 C411,412 C419 C420 C425,426			CC73GCH1H471J CK45FB1H471K CD04BJ1E221M CD04BJ1E101M CC45FSL1H101J	CHIP C CERAMIC ELECTRO ELECTRO CERAMIC	470PF 470PF 220UF 100UF 100PF	J K 25WV 25WV J		
C427,428 C429,430 C431-436 C437,438 C439			CC73GCH1H100D CC45FCH1H100D CD04BJ1E470M CD04AU1E220M CD04BJ1E470M	CHIP C CERAMIC ELECTRO NP ELEC ELECTRO	10PF 10PF 47UF 22UF 47UF	D D 25WV 25WV 25WV	89 89 89	
C440 C441,442 C443-446 C447 C448		*	CD04BJ1H100M CD04BJ1A101M CD04BJ1H220M CD04BJ1H100M CD04BJ2A3R3M	ELECTRO ELECTRO ELECTRO ELECTRO ELECTRO	10UF 100UF 22UF 10UF 3.3UF	50WV 10WV 50WV 50WV 100WV	89 89	
C449,450 C451 C452 C453,454 C455			CD04BJ1H220M CD04BJ1E221M CD04BJ1H220M CK45FB1H471K CD04AU1E220M	ELECTRO ELECTRO ELECTRO CERAMIC NP ELEC	22UF 220UF 22UF 470PF 22UF	50WV 25WV 50WV K 25WV		

* New Parts
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Teile ohne Parts No. werden nicht geliefert.

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KRF-V7090D/VR-9050/9060/9070

PARTS LIST

Ref. No	Add- ress	New Parts	Parts No.		Description		Desti- nation	Re- mark
C457 C458 C459 C460,461 C463,464			CQ93FMG1H392J CC45FCH1H100D CC73GCH1H470J CC73GCH1H101J CD04BJ1E470M	MYLAR CERAMIC CHIP C CHIP C ELECTRO	3900PF 10PF 47PF 100PF 47UF	J D J J 25WV	89	
C536 C538 C540 C544,545 C600			CK73GB1H182K CK73GB1H102K CD04BJ1H220M CK73GB1H103K CD04BJ1H100M	CHIP C CHIP C ELECTRO CHIP C ELECTRO	1800PF 1000PF 22UF 0.010UF 10UF	K K 50WV K 50WV	6789 6789 6789 6789 6789	
C601-606 C607 C608-611 C612 C613-615			CC45FSL1H470J CC45FSL1H470J CD04BJ1E470M CD04BJ1A101M CD04BJ1V330M	CERAMIC CERAMIC ELECTRO ELECTRO ELECTRO	47PF 47PF 47UF 100UF 33UF	J J 25WV 10WV 35WV	89 6789 6789	
C616 C617 C618 C619 C620			CD04BJ1E470M CK73GB1H103K CD04BJ1H100M CD04BJ1V330M CD04BJ1H100M	ELECTRO CHIP C ELECTRO ELECTRO ELECTRO	47UF 0.010UF 10UF 33UF 10UF	25WV K 50WV 35WV 50WV	6789 6789 6789 6789 6789	
C621 C622 C625 C626,627 C651-662			CK73GB1H104K CD04BJ1V330M CD04BJ1H0R1M CK73FB1C105K CC45FSL1H470J	CHIP C ELECTRO ELECTRO CHIP C CERAMIC	0.10UF 33UF 0.1UF 1.0UF 47PF	K 35WV 50WV K J	6789 6789 6789 6789	
C663 C664 C665 C666 C667			CK45FF1H103Z CD04BJ1E470M CK45FF1H103Z CD04BJ1E470M CK45FF1H103Z	CERAMIC ELECTRO CERAMIC ELECTRO CERAMIC	0.010UF 47UF 0.010UF 47UF 0.010UF	Z 25WV Z 25WV Z		
C668 C669 C670,671 C672 C673			CD04BJ1E470M CK45FF1H103Z CD04BJ1E470M CK45FF1H103Z CD04BJ1E470M	ELECTRO CERAMIC ELECTRO CERAMIC ELECTRO	47UF 0.010UF 47UF 0.010UF 47UF	25WV Z 25WV Z 25WV		
C674-677 C681 C682 C693 C694			CD04BJ1H100M CD04BJ1A471M CK73GB1H104K CC45FSL1H101J CK73GB1H103K	ELECTRO ELECTRO CHIP C CERAMIC CHIP C	10UF 470UF 0.10UF 100PF 0.010UF	50WV 10WV K J K	6789 6789 K4K5P4	
C694 C694 C699 C702-705 C706,707			CK73GB1H103K CK73GB1H103K CK73GB1H104K CD04BJ1H3R3M CC45FSL1H331J	CHIP C CHIP C CHIP C ELECTRO CERAMIC	0.010UF 0.010UF 0.10UF 3.3UF 330PF	K K K 50WV J	P5 6789 6789	
C708,709 C710,711 C712 C713 C714,715			CK45FB1H222K CC45FCH1H050C CC45FSL1H221J CC45FSL1H101J CD04BJ1A221M	CERAMIC CERAMIC CERAMIC CERAMIC ELECTRO	2200PF 5.0PF 220PF 100PF 220UF	K C J J 10WV		
C716,717 C718,719 C720 C721 C722			CC45FCH1H150J CC45FSL1H151J CK45FB1H102K CK45FB1H561K CD04BJ1H220M	CERAMIC CERAMIC CERAMIC CERAMIC ELECTRO	15PF 150PF 1000PF 560PF 22UF	J J K K 50WV		

C: China

V: China(Shanghai)

I: Malaysia

L: Scandinavia Y: PX(Far East, Hawaii) Y: AAFES(Europe)

K:USA T: England X: Australia Q: Russia

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I: Malaysia

M: Other Areas ⚠ indicates safety critical components.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert



Ref. No	Add- ress	New Parts	Parts No.		Description			Desti- nation	Re- marks
C724,725 C728 C730 C730 C730			CC45FSL2H470J CK45FF1H472Z C91-1573-05 C91-1573-05 C91-1573-05	CERAMIC CERAMIC MP-C MP-C MP-C	47PF 4700PF 0.10UF 0.10UF 0.10UF	J Z J J		K4K5P4 P5 6789	
C730 C732 C733 C734			C91-1577-05 C91-1577-05 CC45FSL1H101J CK45FF1H103Z	MP-C MP-C CERAMIC CERAMIC	0.22UF 0.22UF 100PF 0.010UF	J J Z		X5E4E5 X5E4E5	
CN301 J61 ,62 J63 J65 -67 J101		*	E41-1435-05 E63-1384-05 E63-1383-05 E56-0059-05 E63-1385-05	FLAT CABLE CO PIN JACK PIN JACK CYLINDRICAL F PIN JACK				89	
J102 J103			E63-1386-05 E63-1386-05	PIN JACK PIN JACK				6789	
J201 J202 J302		*	E11-0995-05 E11-0991-05 E63-1364-05	3.5D PHONE JA 3.5D PHONE JA PIN JACK	CK(1P LF) CK(2P LF)			89 89 89	
J303 J305 J502		*	E63-1382-05 E63-1359-05 E70-1011-05	PIN JACK PIN JACK SCREW TERMIN	NAL BOARD			89 4567	
L201 L202 L502 L702		*	L40-1011-58 L92-0017-05 L76-0018-05 L39-1631-05	SMALL FIXED INDUCTOR(100UH,K) FERRITE CORE DELAY LINE PHASE COMPENSATION COIL				89 89 6789	
R1 -10 R70 -77 R72 R77 -79 R80			RK73GB2A000JK RK73GB2A000JK RK73GB2A000JK RK73GB2A000JK RK73GB2A000JK	CHIP R CHIP R CHIP R CHIP R CHIP R	0 0 0 0]]]	1/10W 1/10W 1/10W 1/10W 1/10W	6789 6789 45 45	
R205 R213,214 R217 R403,404 R409,410			RD14BB2C101J RD14NB2E471J RD14NB2E471J RK73GB2A223J RK73GB2A622J	RD RD RD CHIP R CHIP R	100 470 470 22K 6.2K]]]	1/6W 1/4W 1/4W 1/10W 1/10W	89 89 89	
R415,416 R421,422 R425 R426,427 R428			RK73GB2A473J RK73GB2A220J RD14NB2E561J RK73GB2A102J RK73GB2A102J	CHIP R CHIP R RD CHIP R CHIP R	47K 22 560 1.0K 1.0K]]]	1/10W 1/10W 1/4W 1/10W 1/10W	89	
R429 R430,431 R432 R434 R443,444			RK73GB2A103J RK73GB2A103J RK73GB2A102J RD14NB2E150J RK73GB2A183J	CHIP R CHIP R CHIP R RD CHIP R	10K 10K 1.0K 15 18K]]]	1/10W 1/10W 1/10W 1/4W 1/10W	89 89	
R450 R451 R452 R466,467 R529			RD14NB2E561J RD14NB2E102J RD14NB2E150J RK73GB2A100J RK73GB2A103J	RD RD RD CHIP R CHIP R	560 1.0K 15 10 10K	J J	1/4W 1/4W 1/4W 1/10W 1/10W	89 89 6789	
R530 R532 R534			RK73GB2A223J RK73GB2A332J RK73GB2A562J	CHIP R CHIP R CHIP R	22K 3.3K 5.6K	J J	1/10W 1/10W 1/10W	6789 6789 6789	

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L: Scandinavia	K:USA	P: Canada	R: Mexico	C: China	I: Malaysia
V · PX(Far Fast Hawaii)	T · England	F · Furone	G · Germany	V · China(Shanghai)	

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* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.

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Ref. No	Add- ress	New Parts	Parts No.	D	escription			Desti- nation	Re mar
R536 R539 R540 R542 R545			RK73GB2A103J RK73GB2A223J RK73GB2A103J RK73GB2A104J RK73GB2A101J	CHIP R CHIP R CHIP R CHIP R CHIP R	10K 22K 10K 100K 100	ე ე ე	1/10W 1/10W 1/10W 1/10W 1/10W	6789 6789 6789 6789 6789	
R546 R549 R550 R552 R554			RK73GB2A474J RK73GB2A183J RK73GB2A103J RK73GB2A363J RK73GB2A103J	CHIP R CHIP R CHIP R CHIP R CHIP R	470K 18K 10K 36K 10K	J J	1/10W 1/10W 1/10W 1/10W 1/10W	6789 6789 6789 6789 6789	
R556 R561,562 R563,564 R600 R611,612			RK73GB2A472J RK73GB2A104J RK73GB2A102J RK73GB2A101J RK73GB2A101J	CHIP R CHIP R CHIP R CHIP R CHIP R	4.7K 100K 1.0K 100 100	J J	1/10W 1/10W 1/10W 1/10W 1/10W	6789 6789 6789 6789 6789	
R613 R617 R621-623 R624 R667			RK73GB2A105J RS14KB3A150J RK73GB2A104J RS14KB3A150J RK73GB2A104J	CHIP R FL-PROOF RS CHIP R FL-PROOF RS CHIP R	1.0M 15 100K 15 100K	J J	1/10W 1W 1/10W 1W 1/10W	6789 6789	
R671 R674 R695 R699 R723,724			RS14KB3A150J RS14KB3A470J RK73GB2A101J RK73GB2A105J RD14NB2E221J	FL-PROOF RS FL-PROOF RS CHIP R CHIP R RD	15 47 100 1.0M 220	ا ا ا	1W 1W 1/10W 1/10W 1/4W	6789 6789	
R725,726 R727,728 R729,730 R746 R748			RD14NB2E562J RD14NB2E331J RD14NB2E221J RD14NB2E330J RS14KB3D4R7J	RD RD RD RD FL-PROOF RS	5.6K 330 220 33 4.7	J J J	1/4W 1/4W 1/4W 1/4W 2W		
R752 R756 R758 R760 VR702			RS14KB3D182J RD14NB2E470J RD14NB2E470J RD14NB2E221J R32-0118-05	FL-PROOF RS RD RD RD SEMI FIXED VAR	1.8K 47 47 220 IABLE RES	J J J SISTOF	2W 1/4W 1/4W 1/4W		
K702			S76-0098-05	MAGNETIC RELA	Y				
D101 D155-157 D201-206 D401 D402			MTZJ10(B) MTZJ7.5(B) 1SS133 MTZJ3.9(B) MTZJ5.1(B)	ZENER DIODE ZENER DIODE DIODE ZENER DIODE ZENER DIODE				89 89	
D503 D652 D655,656 D701-704 D706			DA204U 1SS133 MTZJ5.6(B) 1SS133 1SS244	DIODE DIODE ZENER DIODE DIODE DIODE				6789	
D708 D710 IC3 IC6 IC11		*	1SS133 1SS133 BU4066BC RC4580IP NJM2585M	DIODE DIODE ANALOGUE IC ANALOGUE IC ANALOGUE IC					
IC65 IC66 IC68,69		*	LA79510M-E NJM2284V NJM2575	ANALOGUE IC ANALOGUE IC ANALOGUE IC				6789 6789	

I: Malaysia L: Scandinavia K:USA P: Canada R: Mexico C : China Y: PX(Far East, Hawaii) T: England V: China(Shanghai) E: Europe G: Germany

Y: AAFES(Europe) X: Australia Q: Russia H: Korea M: Other Areas indicates safety critical components

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	Ref. No	Add- ress	New Parts	Parts No.	De	scription		Desti- nation	Re- marks
₼	IC201 IC401-404 IC507 IC508 Q65	1622	*	BA05T RC4580IP BA4560F BA7623F 2SD2525	ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC TRANSISTOR			89 6789 6789	ui KS
◭	Q66 Q101 Q158,159 Q201 Q202,203			2SB1640 2SC2003(L,K) KRC103M KRC103M 2SC1740S(Q,R)	TRANSISTOR TRANSISTOR DIGITAL TRANSIST DIGITAL TRANSIST TRANSISTOR			89 89	
	Q204 Q301-309 Q310 Q311-319 Q320			2SA933AS(Q,R) 2SC2878(B)-F 2SC2878(B)-F 2SC2878(B)-F 2SC2878(B)-F	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR			89 89 89	
	Q401,402 Q403-408 Q409 Q410 Q411,412			DTA124EUA 2SC2878(B)-F KRA103M DTA124EUA 2SC2878(B)-F	DIGITAL TRANSIST TRANSISTOR DIGITAL TRANSIST DIGITAL TRANSIST TRANSISTOR	ΓOR		89 89 89	
	Q501,502 Q512 Q701,702 Q703-706 Q707,708			2SC4213(B) 2SC4081(R,S) 2SC2878(B)-F 2SA992(F,E) 2SC2631(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR			6789 6789	
	Q709,710 Q711,712 Q714 Q716			2SA1123(R,S) 2SC2631(R,S) 2SC1845(F,E) KTC3200	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR				
				DISPL	_AY (X14-790	0-10)			
	D734 D741-745 D741-745 D741-745 D741-752			B30-2545-05 B30-2545-05 B30-2545-05 B30-2545-05 B30-2651-05	LED(RED3(160)) LED(RED3(160)) LED(RED3(160)) LED(RED3(160)) LED(RED,D3,40DE	G,)		K4K5P4 P5X5 6789 E4E5	
	D746-752 D746-752 D753 D754 D754			B30-2651-05 B30-2651-05 B30-2545-05 B30-2651-05 B30-2651-05	LED(RED,D3,40DE LED(RED,D3,40DE LED(RED3(160)) LED(RED,D3,40DE LED(RED,D3,40DE	G,) G,)		K4K5P4 P5X5 K4K5P4 P5X5	
	D754,755 D755 D755 D755			B30-2651-05 B30-2545-05 B30-2545-05 B30-2545-05	LED(RED,D3,40DE LED(RED3(160)) LED(RED3(160)) LED(RED3(160))	G,)		E4E5 K4K5P4 P5X5 6789	
	C101 C103 C104 C105 C401			CC45FCH1H101J CK73GB1H103K CC73GCH1H101J CC45FCH1H101J CK45FE2H103P	CERAMIC CHIP C CHIP C CERAMIC CERAMIC	100PF 0.010UF 100PF 100PF 0.010UF	J K J P	E4E5	
	C402 C403 C404-407 C408,409 C410			CD04BJ1E222M CD04BJ1E102M CK73GB1H103K CD04BJ1E470M CC73GCH1H680J	ELECTRO ELECTRO CHIP C ELECTRO CHIP C	2200UF 1000UF 0.010UF 47UF 68PF	25WV 25WV K 25WV J		

L: Scandinavia
Y: PX(Far East, Hawa
Y: AAFES(Europe)

K: USA aii) **T**: England X: Australia

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H: Korea

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I: Malaysia

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Y: AAFES(Europe)

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Y: PX(Far East, Hawaii) T: England

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* New Parts

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KRF-V7090D/VR-9050/9060/9070

Ref. No	Add- ress	New Parts	Parts No.		Description		Desti- nation	Re- marks
C411 C451 C452 C452 C452			CC73GCH1H820J CK45FF1H103Z CQ93FMG1H104J CQ93FMG1H104J CQ93FMG1H104J	CHIP C CERAMIC MYLAR MYLAR MYLAR	82PF 0.010UF 0.10UF 0.10UF 0.10UF	J Z J J	K4K5P4 P5 6789	
C452 C452 C453 C453 C453		* *	CQ93FMG1H393J CQ93FMG1H473J CD04BJ1C332M CD04BJ1C332M CD04BJ1C332M	MYLAR MYLAR ELECTRO ELECTRO ELECTRO	0.039UF 0.047UF 3300UF 3300UF 3300UF	J J 16WV 16WV 16WV	E4E5 X5 K4K5P4 P5 6789	
C453 C454 C456,457 C458 C459			CD04BJ1E332M CD04BJ1H100M CK45FF1H103Z CD04BJ1H100M CD04BJ1H010M	ELECTRO ELECTRO CERAMIC ELECTRO ELECTRO	3300UF 10UF 0.010UF 10UF 1.0UF	25WV 50WV Z 50WV 50WV	X5E4E5	
C501-504 C505,506 C507,508 C509 C510,511			CC73GCH1H101J CK73GB1H102K CC73GCH1H101J CC73GCH1H471J CC73GCH1H101J	CHIP C CHIP C CHIP C CHIP C CHIP C	100PF 1000PF 100PF 470PF 100PF	J K J J		
C536 C538 C540 C544,545 C550			CK73GB1H182K CK73GB1H102K CD04BJ1H220M CK73GB1H103K CK73GB1A105K	CHIP C CHIP C ELECTRO CHIP C CHIP C	1800PF 1000PF 22UF 0.010UF 1.0UF	K K 50WV K K		
C701 C702 C703,704 C705 C741			CC73GCH1H221J CD04BJ1H101M CK73GB1H102K CC73GCH1H181J CK73EB1E105K	CHIP C ELECTRO CHIP C CHIP C CHIP C	220PF 100UF 1000PF 180PF 1.0UF	J 50WV K J K		
C761-766 C777 C778 C779 C780			CK73GB1H103K CK45FB1H102K CC45FCH1H101J CD04BJ1A101M CC73GCH1H270J	CHIP C CERAMIC CERAMIC ELECTRO CHIP C	0.010UF 1000PF 100PF 100UF 27PF	K K J 10WV J		
C791 C792 C793,794 C811 C812,813			CD04AT0J470M CD04BJ1H220M CK45FF1H103Z CK45FF1H103Z CC45FCH1H270J	ELECTRO ELECTRO CERAMIC CERAMIC CERAMIC	47UF 22UF 0.010UF 0.010UF 27PF	6.3WV 50WV Z Z J	X5E4E5 X5E4E5	
C814 C815 C816 C817 C818			CC45FCH1H101J CD04BJ1E470M CK45FB1H561K CK45FF1H103Z CC73GCH1H271J	CERAMIC ELECTRO CERAMIC CERAMIC CHIP C	100PF 47UF 560PF 0.010UF 270PF	J 25WV K Z J	X5E4E5 X5E4E5 X5E4E5 X5E4E5 X5E4E5	
C819 C841 C841 C841 C842			CD04BJ1H2R2M CD04BJ0J102M CD04BJ0J102M CD04BJ0J102M C90-5647-05	ELECTRO ELECTRO ELECTRO ELECTRO ELECTRO	2.2UF 1000UF 1000UF 1000UF 0.047F	50WV 6.3WV 6.3WV 6.3WV 5.5WV	X5E4E5 K4K5P4 P5 6789 X5E4E5	
C843 C844 C845 C851 C852			CD04BJ1H010M CK45FF1H103Z CK73GB1H103K CD04BJ1H100M CC45FSL1H221J	ELECTRO CERAMIC CHIP C ELECTRO CERAMIC	1.0UF 0.010UF 0.010UF 10UF 220PF	50WV Z K 50WV J		

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Ref. No	Add- ress	New Parts	Parts No.	D	escription			Desti- nation	Re- marks
C853-855 C856,857 C858 C907 C908			CC73GCH1H221J CK45FF1H103Z CD04BJ1A101M CK73GB1H103K CK45FF1H103Z	CHIP C CERAMIC ELECTRO CHIP C CERAMIC	220PF 0.010UF 100UF 0.010UF 0.010UF	J Z 10\ K Z	WV		
CN41 CN45 CN47 CN49 CN50			E41-0942-05 E41-0969-05 E41-0969-05 E41-0927-05 E41-1570-05	PIN ASSY PIN ASSY PIN ASSY PIN ASSY PIN ASSY					
		*	E41-0942-05 E41-0942-05 E41-0928-05 E03-0515-05 E03-0515-05	PIN ASSY PIN ASSY PIN ASSY AC OUTLET AC OUTLET				K4K5P4 P5	
J3		* * *	E03-0515-05 E03-0398-05 E03-0325-05 E63-1388-05 E56-0060-05	AC OUTLET AC OUTLET AC OUTLET PIN JACK CYLINDRICAL RE	ECEPTACLE			6789 E4E5 X5	
F1 F1			F05-4025-05 F50-0078-05 F50-0078-05 F50-0078-05 F06-1022-05	FUSE(5X20) FUSE(5X20) FUSE(5X20)	•	•		X5E4E5 K4K5P4 P5 6789 X5E4E5	
CN11,12 CN21,22 E702,703			J13-0075-05 J13-0075-05 J11-0898-05	FUSE CLIP FUSE CLIP WIRE CLAMPER				X5E4E5	
T1 T1 T1			L07-2758-05 L07-2761-05 L07-2809-05 L07-2809-05 L07-2809-05	POWER TRANSF POWER TRANSF POWER TRANSF	ORMER ORMER ORMER			X5 E4E5 K4K5P4 P5 6789	
X701 X811			L78-0725-05 L77-2002-05			2MHZ	<u>Z</u>)	X5E4E5	
R1 ,2 R11 ,12 R51 R120 R410			RK73GB2A000JK RK73EB2E000JK RK73GB2A000JK RK73GB2A102J RS14KB3D181J	CHIP R CHIP R CHIP R CHIP R FL-PROOF RS	0 0 0 1.0K 180	J J J	1/10W 1/4W 1/10W 1/10W 2W		
R454 R457 R457			RD14NB2E1R0J RD14NB2E270J R92-1844-05 R92-1844-05 R92-1844-05	RD RD CARBON CARBON CARBON	1 27 3.3M 3.3M 3.3M	J J J	1/4W 1/4W 1/2W 1/2W 1/2W	K4K5P4 P5 6789	
R501,502 R503,504 R505 R506 R507,508			RK73GB2A101J RK73GB2A104J RK73GB2A750J RK73GB2A101J RK73GB2A750J	CHIP R CHIP R CHIP R CHIP R CHIP R	100 100K 75 100 75	J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R509,510 R530 R531-533 R534			RK73GB2A101J RK73GB2A1R0J RK73GB2A103J RK73GB2A223J	CHIP R CHIP R CHIP R CHIP R	100 1 10K 22K	J J J	1/10W 1/10W 1/10W 1/10W		
	C853-855 C856,857 C856,857 C858 C907 C908 CN41 CN45 CN47 CN49 CN50 CN90 J2 J2 J2 J2 J2 J2 J2 J2 J2 J2 J2 J2 J2	C853-855 C856-857 C858 C907 C908 CN41 CN45 CN47 CN49 CN50 CN70 CN80 CN90 J2 J2 J2 J2 J2 J2 J3 J5 J20 J21 F1	Ref. No ress Parts C853-855 C856,857 C858 C907 C908 CN41 CN45 CN47 CN49 CN50 CN70 CN80 CN90 J2 * J2 * J2 * J3 J5 J20 * J2 * J3 J5 J20 * J21 * F1	Ref. No ress Parts Par	Ref. No ress Parts Farts No. C C C C C C C C C	Ref. No	Ref. No	Ref. No	Net No ress Parts Farts No.

L: Scandinavia	K:USA	P: Canada	R: Mexico	C: China	I: Malaysia
Y: PX(Far East, Hawaii)	T: England	E: Europe	G: Germany	V: China(Shanghai)	
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Y: PX(Far East, Hawaii) T: England

X: Australia

Y: AAFES(Europe)

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G: Germany

H: Korea

V: China(Shanghai)

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Ref. No	Add- ress	New Parts	Parts No.	De	scription			Desti- nation	Re- marks
R535 R536,537 R538 R539 R540			RK73GB2A562J RK73GB2A103J RK73GB2A223J RK73GB2A104J RK73GB2A101J	CHIP R CHIP R CHIP R CHIP R CHIP R	5.6K 10K 22K 100K 100	J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R541 R542 R543,544 R545 R776			RK73GB2A474J RK73GB2A183J RK73GB2A103J RK73GB2A222J RD14NB2E100J	CHIP R CHIP R CHIP R CHIP R RD	470K 18K 10K 2.2K 10	J J J	1/10W 1/10W 1/10W 1/10W 1/4W		
R779 R780 R782 R801,802 R803			RK73GB2A333J RD14NB2E100J RK73GB2A303J RK73GB2A331J RK73GB2A104J	CHIP R RD CHIP R CHIP R CHIP R	33K 10 30K 330 100K	J J J	1/10W 1/4W 1/10W 1/10W 1/10W		
R805 R807,808 R847 R894 R896-898			RK73GB2A104J RK73GB2A103J RK73GB2A101J RK73GB2A101J RK73GB2A101J	CHIP R CHIP R CHIP R CHIP R CHIP R	100K 10K 100 100 100	J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R910,911 R922-924 R926 R935 R938,939			RK73GB2A104J RK73GB2A101J RK73GB2A101J RK73GB2A101J RK73GB2A101J	CHIP R CHIP R CHIP R CHIP R CHIP R	100K 100 100 100 100	J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R941-945 R951,952 R954 R955,956 R967-969			RK73GB2A101J RK73GB2A104J RK73GB2A103J RK73GB2A101J RK73GB2A104J	CHIP R CHIP R CHIP R CHIP R CHIP R	100 100K 10K 100 100K	J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R970 R971,972 R974,975 R977 R993			RK73GB2A153J RK73GB2A104J RK73GB2A104J RK73GB2A273J RK73GB2A101J	CHIP R CHIP R CHIP R CHIP R CHIP R	15K 100K 100K 27K 100	J J J	1/10W 1/10W 1/10W 1/10W 1/10W	X5E4E5	
R997			RD14NB2E1R0J	RD	1	J	1/4W		
K451 K451 K451 K451 S701-708			\$76-0107-05 \$76-0107-05 \$76-0107-05 \$76-0110-05 \$70-0086-05	MAGNETIC RELAY MAGNETIC RELAY MAGNETIC RELAY MAGNETIC RELAY TACT SWITCH				K4K5P4 P5 6789 X5E4E5	
S709-715 S716-725 S731-733			S70-0086-05 S70-0086-05 S70-0086-05	TACT SWITCH TACT SWITCH TACT SWITCH				45	
S761,762 S763			T99-0663-05 T99-0664-05	ROTARY ENCODE ROTARY ENCODE					
D401 D451,452 D453 D454 D455			D2SBA207009F01 1SS133 S1ZB20(7101) 1SS133 RB721Q	DIODE DIODE DIODE DIODE DIODE					
D500 D501-504			1SS302 1SS133	DIODE DIODE					

HOW TO READ THE PARTS LIST ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	ABB.	Australia X	Canada P	Europe E	USA K
KRF-V7090D	4	-	-	E4	-
KRF-V7090D-S	5	X5	-	E5	-
VR-9050	4	-	P4	-	K4
VR-9050-S	5	-	P5	-	K5
VR-9060	6	-	P6	-	K6
VR-9060-S	7	-	P7	-	K7
VR-9070	8	-	P8	-	K8
VR-9070-S	9	-	P9	-	K9

* New Parts

Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Talls ohne **Parts No.** worden gicht geligfort.



Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
D776 D791 D801-806 D841 D842			MTZJ5.1(B) 1SS133 1SS133 RB721Q 1SS133	ZENER DIODE DIODE DIODE DIODE DIODE DIODE		
D843 D844 D846 D961-964 ED78		*	RB721Q 1SS133 1SS133 1SS133 HNA-16MM55T	DIODE DIODE DIODE DIODE FLUORESCENT INDICATOR TUBE		
IC45 IC74 IC78 IC79 IC81		*	BA05T BU2090 LC75711NED-E XC6202P502PR BU1924F	ANALOGUE IC ANALOGUE IC MOS-IC ANALOGUE IC ANALOGUE IC	X5E4E5	
IC84 IC90 IC90 IC401 IC402		*	S-80840CNY-GZ MN101C49HYC MN101C49HYD KIA7812API-UP KIA7912API-UP	ANALOGUE IC MICROPROCESSOR IC MICROPROCESSOR IC ANALOGUE IC ANALOGUE IC	89 4567	
IC502 Q451 Q512 Q731 Q776			BA4560F 2SC1740S(Q,R) 2SC4081(R,S) DTC113ZSA 2SC1740S(Q,R)	ANALOGUE IC TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q777,778 Q841 Q842 Q843 TH1		*	DTC124ESA 2SC1740S(Q,R) 2SA933AS(Q,R) DTC113ZSA MF-R090-99	DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR THERMISTOR		
A791			W02-4599-05	ELECTRIC CIRCUIT MODULE		
l						

L: Scandinavia Y: PX(Far East, Hawaii) T: England Y: AAFES(Europe)

K:USA X: Australia

P: Canada E: Europe Q: Russia

R: Mexico G: Germany H: Korea

C: China V: China(Shanghai)

I: Malaysia

M: Other Areas \triangle indicates safety critical components.

KRF-V7090D/VR-9050/9060/9070 SPECIFICATIONS (KRF-V7090D)

AUDIO section **DIGITAL AUDIO section** Rated power output during STEREO operation Sampling frequency 32 kHz, 44.1 kHz, 48 kHz, 96 kHz IEC (20 Hz ~ 20 kHz, 0.09% T.H.D., at 6 Ω) 100 W + 100 W Input level / impedance / wave length Optical (–15 dBm \sim –24 dBm), 660 nm \pm 30 nm DIN (1 kHz at 6 Ω)120 W + 120 W Effective power output during STEREO operation Coaxial 0.5 Vp-p / 75 Ω Effective power output during SURROUND operation VIDEO section FRONT (20 Hz ~ 20 kHz, 0.09 % T.H.D., at 6 Ω one channel driven) **VIDEO** inputs / outputs (1 kHz, 0.7 % T.H.D., at 6 Ω one channel driven).. 120 W + 120 W S VIDEO inputs /outputs (1 kHz, 10 % T.H.D., at 6 Ω one channel driven) ... 150 W + 150 W S VIDEO (luminance signal)...... 1 Vp-p / 75 Ω CENTER S VIDEO (chrominance signal) 0.286 Vp-p / 75 Ω (20 Hz ~ 20 kHz, 0.09 % T.H.D., at 6 Ω one channel driven) COMPONENT VIDEO inputs/ outputs COMPONENT VIDEO (luminance signal)...... 1 Vp-p / 75 Ω COMPONENT VIDEO (CB/CR-signal)...... 0.7 Vp-p / 75 Ω SURROUND (20 Hz ~ 20 kHz, 0.7 % T.H.D., at 6 Ω one channel driven) FM tuner section100 W + 100 W Tuning frequency range....... 87.5 MHz ~ 108.0 MHz (1 kHz, 0.7 % T.H.D., at 6 Ω one channel driven) .. 120 W + 120 W Usable sensitivity (1 kHz, 10 % T.H.D., at 6 Ω one channel driven) ... 150 W + 150 W MONO 1.3 μ V (75 Ω)/ 13.2 dBf (40 kHz dev, S/N 26 dB) SURROUND BACK STEREO........... 45 μ V (75 Ω)/ 42.1 dBf (40 + 6 kHz dev, S/N 46 dB) (20 Hz ~ 20 kHz, 0.7 % T.H.D., at 6 Ω one channel driven) Total harmonic distortion (1 kHz, 0.7 % T.H.D., at 6 Ω one channel driven).. 120 W + 120 W STEREÒ (1 kHz, 40 + 6 kHzdev) 0.8% (65.2 dBf input) (1 kHz, 10 % T.H.D., at 6 Ω one channel driven) ... 150 W + 150 W Signal to noise ratio (DIN weighted at 1 kHz) Total harmonic distortion0.009 % (1 kHz, 50 W, 6 Ω) MONO 65 dB (65.2 dBf input) Frequency response STEREO...... 60 dB (65.2 dBf input) CD/DVD10 Hz ~ 100 kHz, +0 dB ~ -3.0 dB PHONO 'RIAA' response.......40 Hz ~ 20 kHz, +1.5 dB ~ -3.0 dB Selectivity (DIN ±300 kHz)64 dB Maximum input level Frequency response (30 Hz ~ 15 kHz)......+0.5 dB, -3.0 dB PHONO (MM) 40 mV, 1 % T.H.D., at 1 kHz Signal to noise ratio (IHF'66) PHONO (MM) 75 dB AM tuner section CD/DVD 95 dB Tuning frequency range...... 531 kHz ~ 1,602 kHz Input sensitivity / impedance Usable sensitivity (30% mod, S/N 20 dB) 16 μ V / (600 μ V/m) Signal to noise ratio (30% mod, 400 Hz) PHONO (MM) 6 mV / 47 kΩ CD/DVD, MD/TAPE, AV AUX, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH 500 mV / 47 kΩ Output level / impedance MD/TAPE REC 500 mV / 1 kΩ **GENERAL** PRE OUT (SUBWOOFER)...... 1 V / 1 k Ω Power consumption 300 W Standby Power consumption Less than 1.5 W BASS..... ±10 dB (at 100 Hz) AC outlet TREBLE.....±10 dB (at 10 kHz) SWITCHED (total 90 W max.) Loudness control Dimensions...... W: 440 mm (17-5/16") VOLUME at -30 dB level+6 dB (100 Hz) H : 159 mm (6-1/4") D: 392 mm (15-7/16") Weight (Net) 11.9 kg (26.2 lb)

^{1.} KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without no tice.

^{2.} The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

KRF-V7090D/VR-9050/9060/9070

SPECIFICATIONS (VR-9050)

VIDEO section

AUDIO section

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion. (FTC)

Effective power output during SURROUND operation FRONT (20 ~ 20 kHz, 0.09 % T.H.D., at 8 Ω one channel driven)
SURROUND (20 ~ 20 kHz, 0.7 % T.H.D., at 8 Ω one channel driven)
SURROUND BACK (20 ~ 20 kHz, 0.7 % T.H.D., at 8 Ω one channel driven)
Frequency response
CD/DVD
Maximum input level PHONO (MM)
PHONO (MM)
Input sensitivity / impedance PHONO (MM)
CD/DVD, MD/TAPE, AV AUX, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH 500 mV / 47 kΩ
Output level / impedance MD/TAPE REC
PRE OUT (SUBWOOFER)
BASS
VOLUME at -30 dB level+6 dB (100 Hz)
DIGITAL AUDIO section
Sampling frequency
Optical (–15 dBm ~ –24 dBm), 660 nm ±30 nm

VIDEO Section
VIDEO inputs / outputs
VIDEO (composite) 1 Vp-p / 75Ω
S VIDEO inputs /outputs
S VIDEO (luminance signal) 1 Vp-p / 75Ω
S VIDEO (chrominance signal) 0.286 Vp-p / 75 Ω
COMPONENT VIDEO inputs /outputs
COMPONENT VIDEO (luminance signal) 1 Vp-p / 75Ω
COMPONENT VIDEO (CB/CR-signal) 0.64 Vp-p / 75Ω
COMPONENT VIDEO (CB/Ch-Signal) 0.04 Vp-p / 7512
FM tunes continu
FM tuner section
Tuning frequency range 87.5 MHz ~ 108.0 MHz
Usable sensitivity (MONO)
50 dB quieting sensitivity
STEREO 28 μV (75 Ω)/ 40.2 dBf (75 kHz dev)
Total harmonic distortion
MONO (1 kHz, 75 kHz dev) 0.5% (65 dBf input)
STEREÒ (1 kHz, 67.5 +6.75 kHz dev) 0.7% (65 dBf input)
Signal to noise ratio
MONO (1 kHz, 75 kHz dev) 75 dB (65 dBf input)
STEREO (1 kHz, 67.5 + 6.75 kHz dev) 68 dB (65 dBf input)
Stereo separation (1 kHz)
Selectivity (±400 kHz)70 dB
Frequency response (30 Hz ~ 15 kHz) +0.5 dB, -3.0 dB
Frequency response (30 nz ~ 15 knz) +0.5 db, -3.0 db
AM tuner section
Tuning frequency range
530 kHz ~ 1,700 kHz
Usable sensitivity (30% mod, S/N 20 dB)
16 μV / (600 μV/m)
Signal to noise ratio (30% mod, 400 Hz)
30 db (00 dbµ v Livii iliput)
GENERAL

Power consumption 3.4 A
Standby Power consumption Less than 1 W
AC outlet
SWITCHED (total 150 W, 1.25 A max.)
Dimensions W: 440 mm (17-5/16")
H : 159 mm (6-1/4")
D : 392 mm (15-7/16")
Weight (Net) 11.7 kg (25.8 lb)

^{1.} KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without no tice.

^{2.} The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

KRF-V7090D/VR-9050/9060/9070 SPECIFICATIONS (VR-9060)

AUDIO section

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 $\Omega\,$ from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion. (FTC)

Effective power output during SURROUND operation FRONT (20 ~ 20 kHz, 0.09 % T.H.D., at 8 Ω one channel driven)
SURRÓUND (20 ~ 20 kHz, 0.7 % T.H.D., at 8 Ω one channel driven) 100 W + 100 W
SURRÓUND BACK (20 ~ 20 kHz, 0.7 % T.H.D., at 8 \(\Omega\) one channel driven)
Frequency response CD/DVD10 Hz ~ 100 kHz, +0 dB ~ -3.0 dB PHONO 'RIAA' response40 Hz ~ 20 kHz, +1.5 dB ~ -3.0 dB
Maximum input level PHONO (MM) 40 mV, 1 % T.H.D., at 1 kHz
Signal to noise ratio (IHF'66) PHONO (MM)
Input sensitivity / impedance PHONO (MM)
CD/DVD, MD/TAPE, AV AUX, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH
TAPE REC
BASS ±10 dB (at 100 Hz) TREBLE
VOLUME at -30 dB level+6 dB (100 Hz)
DIGITAL AUDIO section
Sampling frequency
Optical
Optical21 dBm ~ -15 dBm, 660 nm ±30 nm

VIDEO section

VIDEO SECTION
VIDEO inputs / outputs
VIDEO (composite) 1 Vp-p / 75Ω
S VIDEO inputs /outputs
S VIDEO (luminance signal) 1 Vp-p / 75Ω
S VIDEO (chrominance signal) 0.286 Vp-p / 75Ω
COMPONENT VIDEO inputs /outputs
COMPONENT VIDEO (luminance signal) 1 Vp-p / 75 Ω
COMPONENT VIDEO (CB/CR-signal) 0.64 Vp-p / 75 Ω
FM tuner section
Tuning frequency range
Usable sensitivity (MONO)
50 dB quieting sensitivity
STEREO
Total harmonic distortion
MONO (1 kHz, 75 kHz dev) 0.5% (65 dBf input)
STEREO (1 kHz, 67.5 +67.5 kHz dev) 0.7% (65 dBf input)
Signal to noise ratio
MONO (1 kHz, 75 kHz dev)
STEREO (1 kHz, 67.5 + 67.5 kHz dev) 68 dB (65 dBf input)
Stereo separation (1 kHz)
Selectivity (±400 kHz)
Frequency response (30 Hz ~ 15 kHz) +0.5 dB, -3.0 dB
, , , , , , , , , , , , , , , , , , , ,

AM tuner section
Tuning frequency range 530 kHz ~ 1,700 kHz
Usable sensitivity (30% mod, S/N 20 dB) 16 μ V / (600 μ V/m)
Signal to noise ratio (30% mod, 400 Hz)
50 dB (60 dBµV EMF input)
GENERAL
Power consumption 3.4 A
Standby Power consumption Less than 1 W
AC outlet
SWITCHED (total 150 W, 1.25 A max.)
Dimensions
H : 166 mm (6-9/16")

Weight (Net) 12.0 kg (26.5 lb)

D: 396 mm (15-9/16")

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^{2.} The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

KRF-V7090D/VR-9050/9060/9070 SPECIFICATIONS (VR-9070)

AUDIO section

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion. (FTC)

Effective power output during SURROUND operation
FRONT (20 ~ 20 kHz, 0.09 % T.H.D., at 8 Ω one channel driven)
100 W + 100 W
CENTER (20 ~ 20 kHz, 0.09 % T.H.D., at 8 Ω one channel
driven) 100 W
SURROUND (20 ~ 20 kHz, 0.7 % T.H.D., at 8 Ω one channel
driven) 100 W + 100 W
SURROUND BACK (20 ~ 20 kHz, 0.7 % T.H.D., at 8 one
channel driven) 100 W + 100 W
Total harmonic distortion 0.009 % (1 kHz, 50 W, 8 Ω)
Frequency response
CD/DVD10 Hz ~ 100 kHz, +0 dB ~ -3.0 dB
PHONO 'RIAA' response40 Hz ~ 20 kHz, +1.5 dB ~ -3.0 dB
Maximum input level
PHONO (MM) 40 mV, 1 % T.H.D., at 1 kHz
Signal to noise ratio (IHF'66)
PHONO (MM)
CD/DVD95 dB
Input sensitivity / impedance PHONO (MM) 4 mV / 47 kΩ
CD/DVD, MD/TAPE, AV AUX, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH
CD/DVD, MD/TAPE, AV AUX, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH
Output level / impedance
TAPE REC300 mV / 1 kΩ
PRE OUT (FRONT CHANNEL) 1 V / 500 Ω
PRE OUT (CENTERCHANNEL)
PRE OUT (SURROUND CHANNEL) 1 V / 500 Ω
PRE OUT (SURROUND BACK CHANNEL) 1 V / 500 Ω
PRE OUT (SUBWOOFER) 1 V / 500 Ω
Tone control '
BASS ±10 dB (at 100 Hz)
TREBLE ±10 dB (at 10 kHz)
Loudness control
VOLUME at -30 dB level+6 dB (100 Hz)
DICITAL AUDIO costion
DIGITAL AUDIO section
Sampling frequency 32 kHz, 44.1 kHz, 48 kHz, 96 kHz
Input level / impedance / wave length
Optical15 dBm ~ -24 dBm, 660 nm ±30 nm
Coaxial
Output level / impedance / wave length
Optical21 dBm ~ -15 dBm, 660 nm ±30 nm

VIDEO section
VIDEO inputs / outputs
S VIDEO (luminance signal)
COMPONENT VIDEO (luminance signal) 1 Vp-p / 75 Ω COMPONENT VIDEO (CB/CR-signal)0.64 Vp-p / 75 Ω
FM tuner section
Tuning frequency range
1.3 μ V (75 Ω)/ 13.2 dBf (75 kHz dev, SINAD 30 dB) 50 dB quieting sensitivity
STEREO
MONO (1 kHz, 75 kHz dev)
MONO (1 kHz, 75 kHz dev) 75 dB (65 dBf input) STEREO (1 kHz, 67.5 + 67.5 kHz dev) 68 dB (65 dBf input)
Stereo separation (1 kHz)
AM tuner section
Tuning frequency range
Usable sensitivity (30% mod, S/N 20 dB)
Signal to noise ratio (30% mod, 400 Hz)
50 dB (60 dBμV EMF input)
CENERAL
GENERAL
Power consumption
SWITCHED (total 150 W, 1.25 A max.)
Dimensions W: 440 mm (17-5/16")
H : 166 mm (6-9/16") D : 396 mm (15-9/16")
Weight (Net) 12 kg (26.5 lb)

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- 2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

